

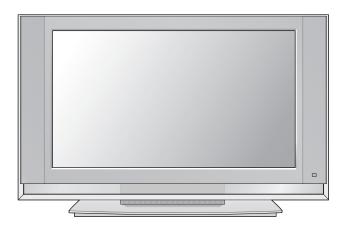
LCD TV SERVICE MANUAL

CHASSIS: ML-038C

MODEL: RZ-37LZ30

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION. Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube.** Do not lift the Picture tube by it's Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.

For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch, 29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone iacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

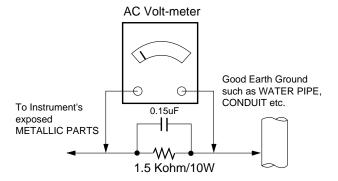
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

- Always unplug the receiver AC power cord from the AC power source before;
 - Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
 - **CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
 - d. Discharging the picture tube anode.
- Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
 Do not test high voltage by "drawing an arc".
- 3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
- Do not spray chemicals on or near this receiver or any of its assemblies.
- Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts in not required.

- Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
- Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
- Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
 - Always remove the test receiver ground lead last.
- Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques

should be used to help reduce the incidence of component damage caused by static by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded-tip soldering iron to solder or unsolder ES
 devices
- Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

 Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

- Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500° F to 600° F.
- 2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
- 3. Keep the soldering iron tip clean and well tinned.
- Thoroughly clean the surfaces to be soldered. Use a mall wirebristle (0.5 inch, or 1.25cm) brush with a metal handle.
 Do not use freon-propelled spray-on cleaners.
- 5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. $(500^{\circ} \, \text{F to } 600^{\circ} \, \text{F})$
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suctiontype solder removal device or with solder braid. CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
- 6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature $(500^{\circ}\,\text{F to }600^{\circ}\,\text{F})$
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
 - **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

- Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
- Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

- 1. Carefully insert the replacement IC in the circuit board.
- Carefully bend each IC lead against the circuit foil pad and solder it.
- Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

Remove the defective transistor by clipping its leads as close as

- possible to the component body.

 2. Bend into a "U" shape the end of each of three leads remaining
- on the circuit board.
- Bend into a "U" shape the replacement transistor leads.
 Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

- 1. Heat and remove all solder from around the transistor leads.
- 2. Remove the heat sink mounting screw (if so equipped).
- Carefully remove the transistor from the heat sink of the circuit board.
- 4. Insert new transistor in the circuit board.
- 5. Solder each transistor lead, and clip off excess lead.
- 6. Replace heat sink.

Diode Removal/Replacement

- Remove defective diode by clipping its leads as close as possible to diode body.
- Bend the two remaining leads perpendicular y to the circuit hoard
- Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
- 4. Securely crimp each connection and solder it.
- Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

Clip each fuse or resistor lead at top of the circuit board hollow

- 2. Securely crimp the leads of replacement component around notch at stake top.
- 3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

- Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
- carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
- 3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
- 4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

- Remove the defective copper pattern with a sharp knife.
 Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
- Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
- Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.

Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE: Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to ML-038C chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Ambient Temperature: 25°C ± 5°C(But, CST must be tested 40°C ± 2°C (Humidity : 50%))
- (2) Humidity: $65\% \pm 10\%$
- (3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 15min.

(5) Adjusting standard for this chassis is followed a special standard.

3. Test and Inspection method

- (1) Capacity: Follow LG electronics TV Testing Standard.
- (2) Another Required Standard

EMI: Following CE Standard(EN55020) SAFETY: Following CB Standard(EN55013)

4.General Specification

No.		Item	Specification	Remark
1	Video input ap	oplicable system	1)PAL/SECAM BG	
			2)PAL/SECAM DK	
			3)PAL I/I	
			4)SECAM L/L'	
2	AV input syste	em	1)PAL	
			2)SECAM	
			3)NTSC 3.58/4.43	
3	Available char	nnel	1)VHF : E2 ~ E12	
			UHF : E21 ~ E69	
			CATV : S1 ~ S20	
			HYPER : S21 ~ S41	
			2)L/L' VHF: B,C,D	
4	PC Signal Inp	ut	VGA	
	(RGB Input)		SVGA	
			XGA (1024 x 768)	
			WXGA (1366 x 768)	
5	Input Voltage		AC 100~240V/ 50Hz,60HZ	
6	Active Display		37.02"	
7	Operating Ter	•	Temp : 0 ~ 40 deg	Humidity: 50%(Temp: 40° C)
8	Operating Hur		Humidity: 85%	
9	Storage Temp		Temp : -20 ~ 60 deg	
10	Storage Hum	idity	Humidity: 85%	
12	LCD Panel	Model Name	LC370W01	Life Time: Until brightness of lamp
		Feature	TFT Active Matrix LCD Panel	goes to half of its initial brightness.
		Outline Dimension	877(H) x 517(V) x 56.6(D) mm	(condition: continuous operating
		Aspect Ratio	16:9	at 25±2°C)
		Resolution	1366 x 768	
		Pixel Pitch	0.200 x 0.600 x RGB	
		Weight	13.2kg	
13	Lamp	Backlight System	CCFL(Cold Cathode Fluorescent Lamp)	
		Quantity	16EA	
		Power Consumption	136W	
	Life Time		50,000Hrs	
14	Speaker	Impedance	4 Ω	

5. Feature and Function

No.		Item		Specification	Remark				
1	Remocon C	Code		LG Code Only	EU				
2	Local Key			MENU, ▲, PR ▼, ◀VOL ▶, TV · AV, OK, 0/I	8 Key				
3	Picture	User Cont	rol	Colour Temperature	Tint (NTSC Signal Only)				
				Contrast					
				Brightness					
				Colour					
				Tint					
				Sharpness					
		PSM		Dynamic / Standard / Mild /User					
		CSM		Normal / Cool / Warm / User	9,350 K / 13,500 K / 8,000K				
4	Motion Det	ection		o (FLI2300)					
5	Stereo Sound			FM Stereo / Nicam Stereo	Classified receiving broadcasting form				
6	Dual Sound	t		FM Stereo / Nicam Stereo					
7	Teletext			TOP, FLOP, LIST, 128 Page	EU				
8	DW(Double	Window) M	lode	0					
9	Multi Pictur	e Display M	ode	1 PIP	Flexible Window Size & Position				
10	Progressive	e Scan		0					
11	Display	CVBS,YC,	, 480I	16:9(FULL), 4:3, 14:9, Zoom(Letter Box)					
	mode			Auto ARC					
	- Main		ARC	16:9(FULL), 4:3					
		RGB, DVI	Zoom	0 - 50					
			Step						
	Sub - PIP	CVBS,YC,	,480I	16:9(FULL), 4:3					
12	OSD Langu	ıage		English/French/Deutsch/Spanish/Italian					

6. RGB 1 and RGB 2 Input Mode

Vertical Frequency: Standard ± 0.5 Hz Vertical Lines: Standard ± 7 Lines

NO	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remark
	PC)					
1	640*350	31.468	70.09	25.17	EGA	
1	640*350	37.861	85.08	31.50	EGA	
2	720*400	31.469	70.08	28.32	DOS	
3	720*400	37.927	85.03	35.50	DOS	
4	640*480	31.469	59.94	25.17	VESA(VGA)	
5	640*480	37.861	72.80	31.50	VESA(VGA)	
6	640*480	37.500	75.00	31.50	VESA(VGA)	
7	640*480	43.269	85.00	36.00	VESA(VGA)	
8	800*600	35.156	56.25	36.00	VESA(SVGA)	
9	800*600	37.879	60.31	40.00	VESA(SVGA)	
10	800*600	48.077	72.18	50.00	VESA(SVGA)	
11	800*600	46.875	75.00	49.50	VESA(SVGA)	
12	800*600	53.674	85.06	56.25	VESA(SVGA)	
13	1024*768	48.363	60.00	65.00	VESA(XGA)	
14	1024*768	56.476	70.06	75.00	VESA(XGA)	
15	1024*768	60.023	75.02	78.75	VESA(XGA)	
16	1024*768	68.677	84.99	94.50	VESA(XGA)	
17						
18						
19						
20						
21						
22	1360*768	47.7	60.00	80.14	CVT.(WXGA)	
23	1366*768	60.15	75.00	102.90	GTF.(WXGA)	
24						
25						
26						
27						
28	832*624	49.725	74.55	57.28	Macintosh(16")	

ADJUSTMENT INSTRUCTION

1. Application Object

These instructions are applied to all of the MODELS of LCD TV, ML-038C.

2. Instruction

- 2-1. Because this is not a hot chassis, it is not necessary to use an isolation transformer.
 - However, the use of isolation transformer will help protect test instrument.
- 2-2. Adjustment must be done in the correct order. But it can be changed in consideration of mass production.
- 2-3. The adjustment must be performed in the circumstance of 25 \pm 5° C of temperature and 65 \pm 10% of relative humidity if there is no specific designation.
- 2-4. The input voltage of the receiver must keep 220V,60Hz in adjusting.
 - Input voltage is possible from 100V to 264V. Adjustment should be operated in 220V/60Hz if there is no specific designation.
- 2-5. The receiver must be operated for about 15 minutes prior to the adjustment.
 - After receiving 100% White Pattern(06CH), the receiver must be operate prior to the adjustment.(Or white condition in HEAT-RUN mode)
 - Enter into HEAT-RUN MODE
 - -Select 'White' by pressing 'POWER ON' key on SVC Communicator.

CAUTION) If you turn on a still screen more than 20 minutes, a afterimage may be occur in the black level part of the screen.

3. Adjustment

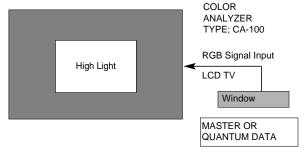
CAUTION) Each PCB Assy must be checked by Check JIG Set before assembling.

(Be careful about power PCB ASSY which can give a fatal damage to the LCD Module.)

- 3-1. White Balance Adjustment
- 3-1-1. Required Equipment

Color Analyzer (CA-100 or same production)

3-1-2. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig.1> Connection Diagram of Automatic Adjustment

- Connect RS-232C to Adjustment Equipment and SET.
- Automatization operating room has in charge of managing and repairing about adjusting equipment.
- Automatic adjustment equipment decides the value of R-GAIN/G-GAIN/B-GAIN
- by correcting color coordinates/white balance and transmits them into SFT

(Use the RS-232C) and finally the set saves data values.

Model Name			ML-038C RZ-37LZ30									
Communication	Туре			RS-232C								
	Baud ra	ite	Data bit		Stop b	oit	Parity bit					
	115200		8		1		NONE					
	Protocol	Index	Cmd1	Cmd2	Data	Min.Value		Max.Value				
		R-H	j	d		0		100				
		G-H	j	е		0		100				
		R-Gain	j	а		0		100				
		G-Gain	j	b		0		100				

- 3-1-2. White Balance Adjustment(Manual Adjustment)
 - Operate Zero Calibration of CA-100 and Sensor must be stick completely to the surface of LCD module.
 - Divide Manual adjustment into AV/PC and operate adjustment by the following sequence.
 - Manual adjustment is a temporary method when automatic adjustment is not correspondent.
- (1) Select WHITE PATTERN of HEAT RUN mode by pressing 'POWER ON' key on SVC Communicator and then operate HEAT RUN more than 15 minutes..
- (2) Supply pattern signal for WB adjustment in pattern generator. (External INPUT)
- (3) Low Light has no special adjustment.
- (4) White Balance Adjustment must be only perform in A/V mode(A/V3) Thereis no WB Adjustment for RGB input
- (5) To adjust High Light, stick sensor to (2) pattern(White), and after select the R-H G-H by pressing ADJ button on SVC Communicator, press the Vol +/- Key and adjust it until color coordination becomes (B GAIN is fixed)

Color coordination : X; 0.290 ± 0.025 , Y; 0.284 ± 0.025 Color temperature : 9.300° K $\pm 1,000^{\circ}$ K.

- (6) Exit adjustment mode using Enter button.
- 3-2. EDID (The Extended Display Identification Data)/DDC(Display Data Channel) Adjustment
- 3-2-1. This is a function that is made for the realization of "Plug and Play" which makes possible to use the user environment right after reorganization by communicating with monitor automatically.

3-2-2. EDID DATA for DVI of ML-038C(Data for DDC) EDID Table=

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	D7	ЗА	01	01	01	01
10	33	0E	01	01	81	5D	34	96	08	В7	FB	A1	56	48	98	24
20	13	48	4B	AF	EF	80	31	40	31	59	3В	D9	45	40	45	59
30	61	59	81	4F	71	59	30	2A	00	98	51	00	2A	40	30	70
40	13	00	A2	0B	32	00	00	18	1B	21	50	A0	51	00	1E	30
50	48	88	35	00	A2	0B	32	00	00	1E	00	00	00	FD	00	38
60	4B	1E	50	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	52	5A	2D	34	32	4C	5A	33	30	20	20	20	20	00	DF

3-2-2. EDID DATA for RGB of ML-038C EDID Table=

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	D7	ЗА	01	01	01	01
10	33	0E	01	01	1E	5D	34	96	08	В7	FB	A1	56	48	98	24
20	13	48	4B	AF	EF	80	31	40	31	59	3B	D9	45	40	45	59
30	61	59	81	40	01	01	ВС	34	00	98	51	00	2A	40	10	90
40	13	00	A2	0B	32	00	00	1E	F9	15	20	F8	30	58	1F	20
50	20	40	13	00	A2	0B	32	00	00	1E	00	00	00	FD	00	38
60	55	1E	50	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	52	5A	2D	34	32	4C	5A	33	30	20	20	20	20	00	8F

EDID ADJUSTMENT

Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP Port Setup: Windows 98 => Don't need setup

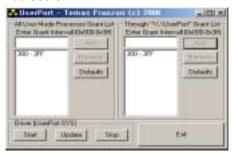
Windows 2000, XP => Need to Port Setup.

This program is available to LCD Monitor only.

- 1. Port Setup
 - a) Copy "UserPort.sys" file to "c:\WINNT\system32\drivers" folder
 - b) Run Userport.exe

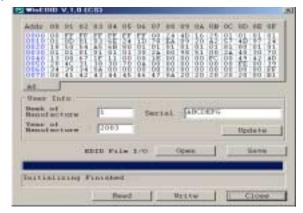


- c) Remove all default number
- d) Add 300-3FF

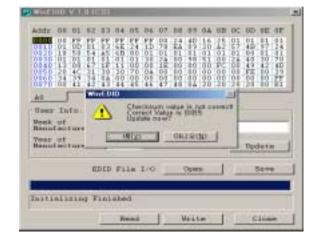


- e) Click Start button.
- f) Click Exit button.

- 2. EDID Read & Write
 - 1) Run WinEDID.exe



- 2) Edit Week of Manufacture, Year of Manufacture, Serial Number
 - a) Input User Info Data
 - b) Click "Update" button
 - c) Click "Write" button



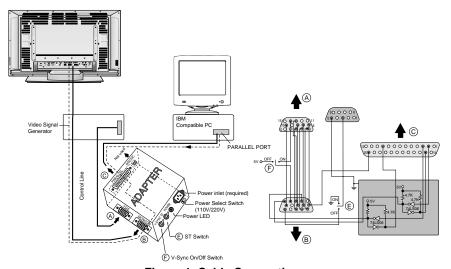
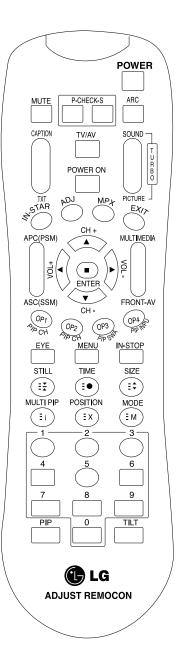


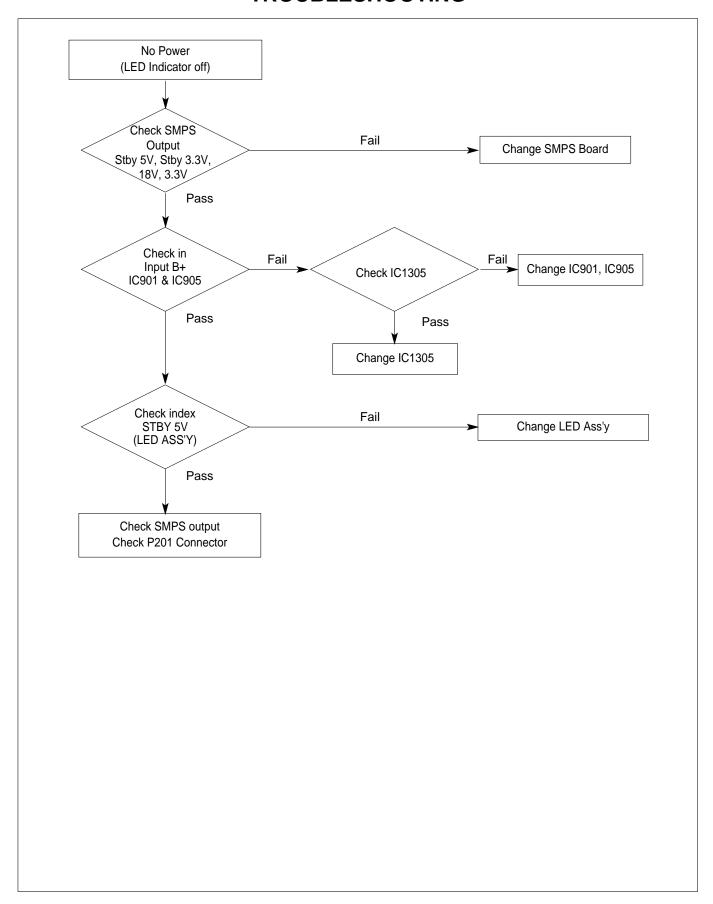
Figure 1. Cable Connection

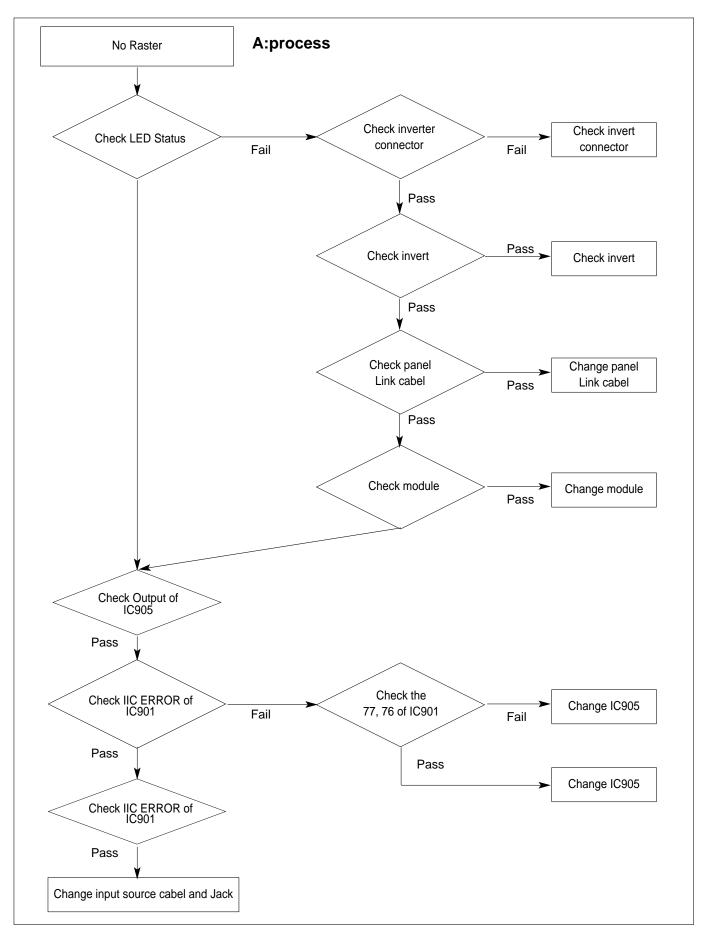
SVC REMOCON

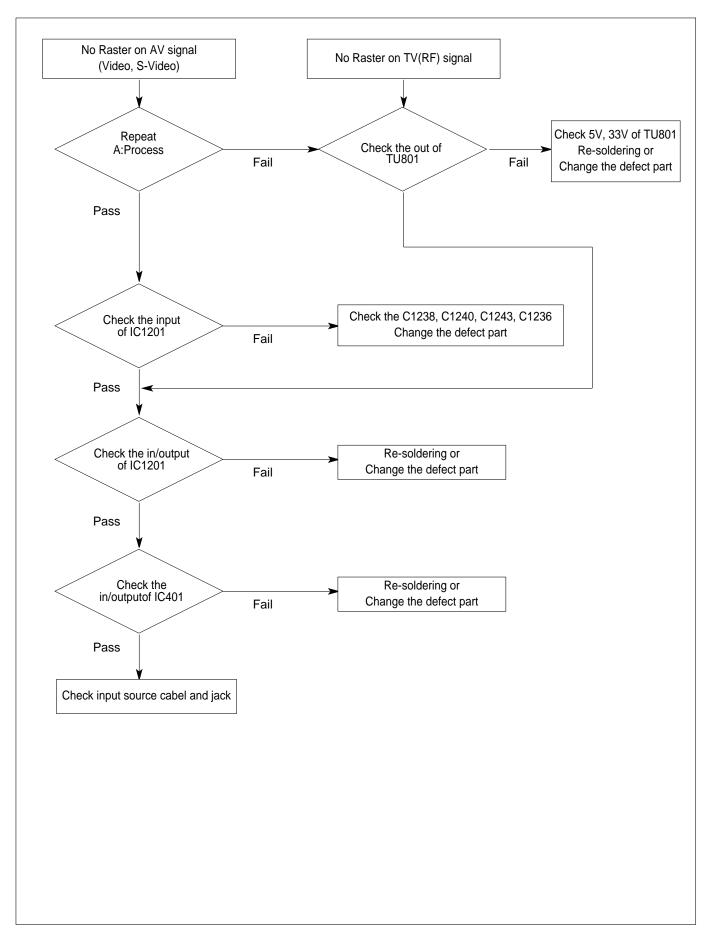
NO	KEY	FUNTION	REAMARK				
1	POWER	To turn the TV on or off					
		To turn the TV on automatically if the power is supplied to the TV. (Use the					
2	POWER ON	POWER key to deactivate): It should be deactivated when delivered.					
3	MUTE	To activate the mute function.					
4	P-CHECK	To check TV screen image easily.					
5	S-CHECK	To check TV screen sound easily	Shortcut keys				
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys				
7	CAPTION	Switch to closed caption broadcasting					
8	TXT	To toggle on/off the teletext mode					
9	TV/AV	To select an external input for the TV screen					
10	TURBO SOUND	To start turbo sound					
11	TURBO PICTURE	To start turbo picture					
		To enter adjustment mode when manufacturing the TV sets.	Use the AV				
		To adjust the screen voltage (automatic):	key to enter				
12	IN-START	In-start \rightarrow mute \rightarrow Adjust \rightarrow AV(Enter into W/B adjustment mode)	the screen W/B				
		W/B adjustment (automatic):	adjustment				
		After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	mode.				
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.					
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)					
15	EXIT	To release the adjustment mode					
16	APC(PSM)	To easily adjust the screen according to surrounding brightness					
17	ASC(SSM)	To easily adjust sound according to the program type					
18	MULTIMIDIA						
19	FRONT-AV	To check the front AV					
20	CH±	To move channel up/down or to select a function displayed on the screen.					
21	VOL±	To adjust the volume or accurately control a specific function.					
22	ENTER	To set a specific function or complete setting.					
		To move the channel down in the PIP screen.					
23	PIP CH-(OP1)	To use as a red key in the teletext mode					
2.4	DID OLL (ODO)	To move the channel in the PIP screen					
24	PIP CH+(OP2)	To use as a green key in the teletext mode					
	over - (o)	To switch between the main and sub screens					
25	PIP SWAP(OP3)	To use as a yellow key in the teletext mode					
	(To select the input status in the PIP screen					
26	PIP INPUT(OP4)	To use as a blue key in the teletext mode					
07	E) (E	To set a function that will automatically adjust screen status to match					
27	EYE	the surrounding brightness so natural color can be displayed.					
28	MENU	To select the functions such as video, voice, function or channel.					
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.					
		To halt the main screen in the normal mode, or the sub screen at the PIP screen.					
30	STILL	Used as a hold key in the teletext mode (Page updating is stopped.)					
		Displays the teletext time in the normal mode					
31	TIME	Enables to select the sub code in the teletext mode					
	0:	Used as the size key in the PIP screen in the normal mode					
32	SIZE	Used as the size key in the teletext mode					
	MUUTI SIS	Used as the index key in the teletext mode (Top index will be					
33	MULTI PIP	displayed if it is the top text.)					
		To select the position of the PIP screen in the normal mode					
34	POSITION	Used as the update key in the teletext mode (Text will be					
•		displayed if the current page is updated.)					
35	MODE	Used as Mode in the teletext mode					
36	PIP	To select the simultaneous screen					
37	TILT	To adjust screen tilt	Shortcut keys				
38	0~9	To manually select the channel.	1,				
00		,					

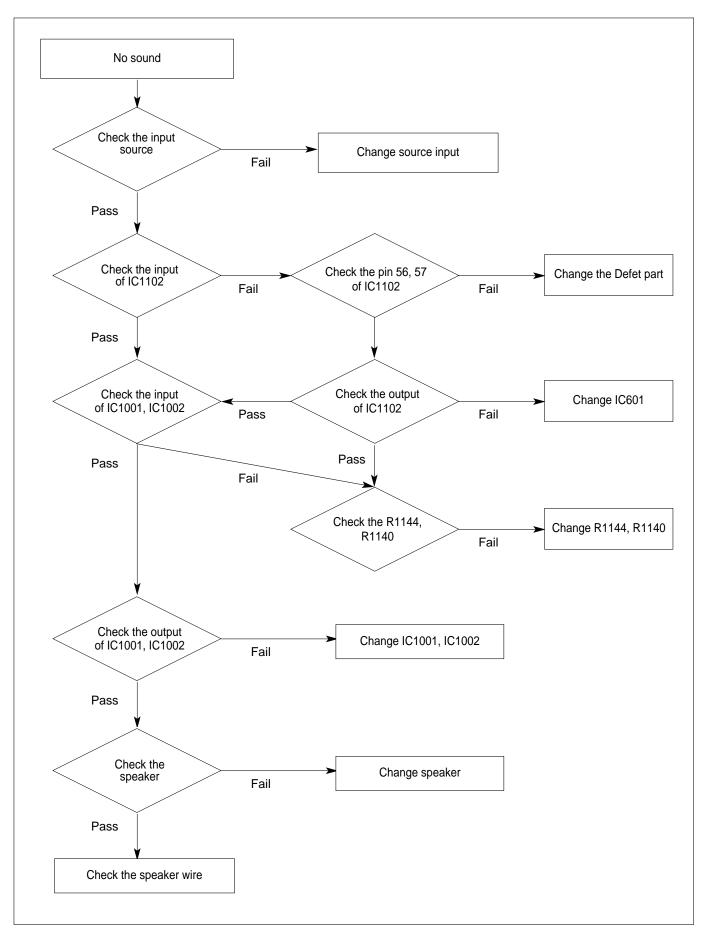


TROUBLESHOOTING

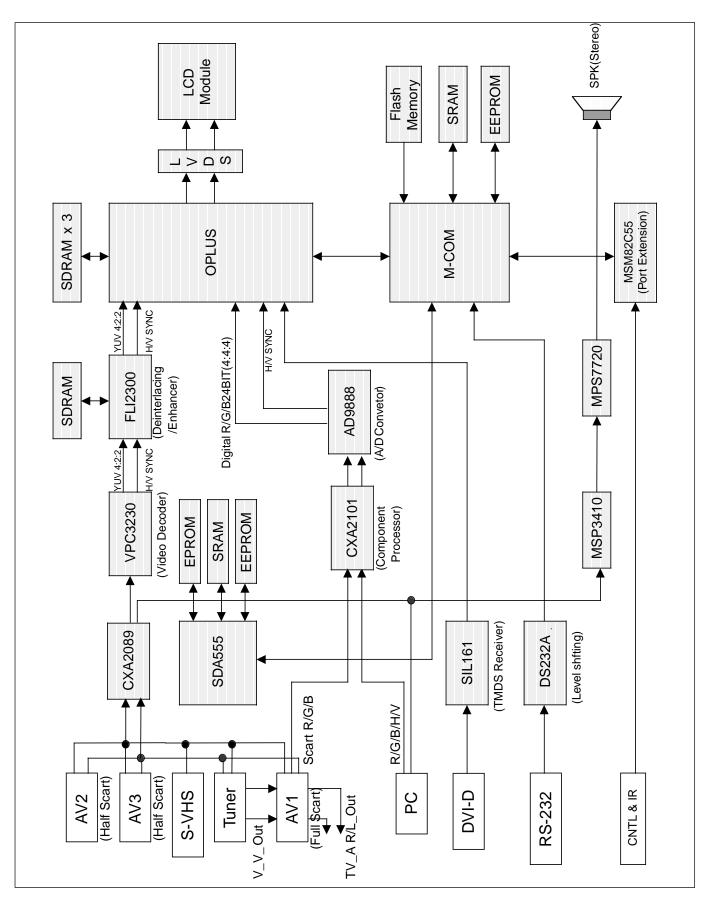








BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

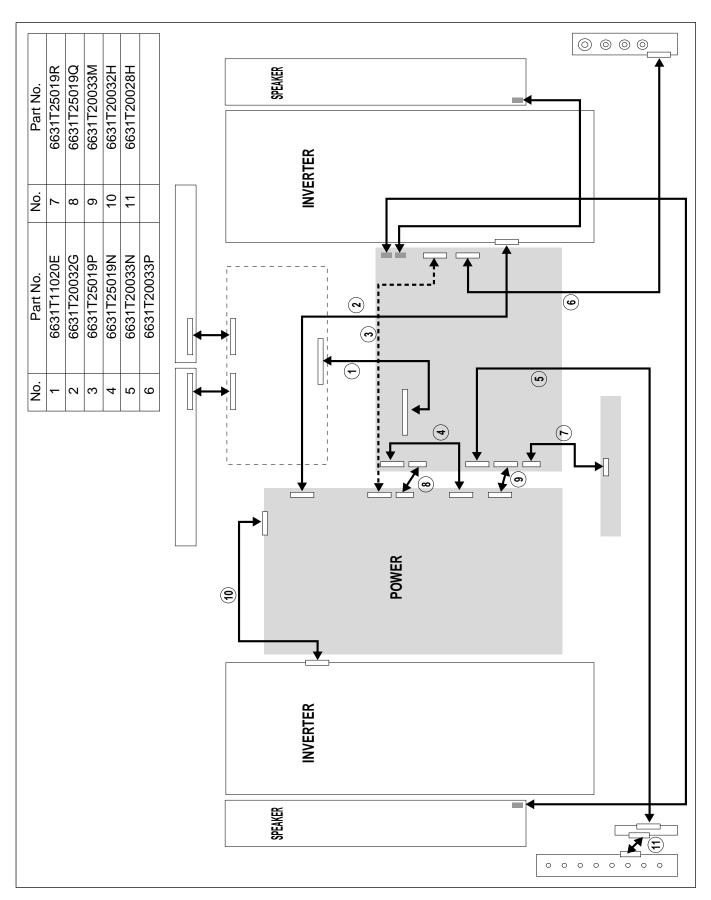
1. Input block

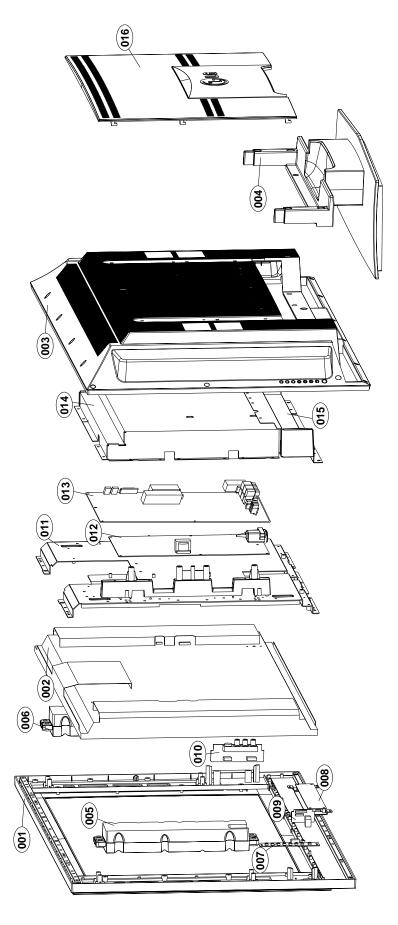
- It is consist of CVBS, S-Video, RF, Analog RGB, DVI-D signals.
- The RS-232C jack is used for software-upgrade and white balance adjustment.
- It is connected with PC for software-upgrade usage or white balance adjustment equipment in manufacturing process.

2. Video Signal Path

- CXA2089 is switching IC for AV signals(AV1,AV2,AV3,RF signals).
- VPC3230 are have functions are
 - · high performance adaptive 4H Comb-Filter Y/C separator with adjustable vertical peaking.
 - · multi-standard color decoder PAL/NTSC/SECAM including all sub standards.
- FLI2300 is Deinterlacer/Line doubler.
 - · Supports 525/60(NTSC),625/50(PAL/SECAM).
 - · Accept up to 1100 pixels/line.
- Scaler input Block.
 - Input data format is YUV 4:2:2 plus H,V sync and data clock .
 - · Deinterlacer IC's output pass through this.

WIRING





EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
004	3091TKE007A	CABINET ASSEMBLY, 37LZ30 BRAND 3090TKE008A .
001	3091TKE007B	CABINET ASSEMBLY, RZ-37LZ30 BRAND . RZ-37LZ30(SKD)
002	6304FLP150A	LCD(LIQUID CRYSTAL DISPLAY),LC370W01-C5K1 LG PHILPS TFT COLOR WXGA, WITH AI
	3809TKE005F	BACK COVER ASSEMBLY, RZ-37LZ30 3808TKE007 LABEL : 3850VC0002F
003	3809TKE005A	BACK COVER ASSEMBLY, 37LZ30 3808TKE007A .
	3809TKE005B	BACK COVER ASSEMBLY, RZ-37LZ30 . RZ-37LZ30(CKD)
004	3043TKK162A	TILT SWIVEL ASSEMBLY, 37LZ30
004	3043TKK162B	TILT SWIVEL ASSEMBLY, RZ-37LZ30 . RZ-37LZ30(CKD)
005	6401TZZ045A	SPEAKER ASSEMBLY, RZ-37LZ30 LEFT
006	6401TZZ044A	SPEAKER ASSEMBLY, RZ-37LZ30 RIGHT
007	6871TSH721A	PWB(PCB) ASSEMBLY,SUB RZ-37LZ30 CONTROL HAND BRAND CNTL BOARD
800	6871TST570A	PWB(PCB) ASSEMBLY,SUB RZ-37LZ30 SUB TOTAL BRAND LED BOARD
009	6871TST569A	PWB(PCB) ASSEMBLY,SUB RZ-37LZ30 SUB TOTAL BRAND IR BOARD
010	6871TSH564A	PWB(PCB) ASSEMBLY,SUB RZ-37LZ30 SUB HAND BRAND SIDE A/V
044	4951TKS162A	METAL ASSEMBLY FRAME MAIN FRAME ASSY. RZ-37LZ30
011	4951TKS162D	METAL ASSEMBLY, FRAME METAL MAIN ASSY , RZ-37LZ30(CKD)
012	6871TPT283A	PWB(PCB) ASSEMBLY,POWER, 37-42 INCH PSU POWER TOTAL BRAND NON-IR JACK
013	3313TP3001B	MAIN TOTAL ASSEMBLY, RZ-37LZ30 BRAND ML-038C MAIN
04.4	4951TKK196A	METAL ASSEMBLY REAR SHIELD , 37LZ30
014	4951TKK196B	METAL ASSEMBLY, REAR SHIELD, 37LZ30
045	4951TKK200A	METAL ASSEMBLY REAR METAL REAR AV, RZ-37LZ30(SET)
015	4951TKK200B	METAL ASSEMBLY, REAR METAL AV, RZ-37LZ30(CKD)
016	3550TKK530A	COVER, 37LZ30 REAR AV

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic CQ : Polyestor CE : Electrolytic CF : Fixed Film

RD : Carbon Film RS : Metal Oxide Film

RN : Metal Glazed (Chip)
RH : CHIP, Metal Glazed (Chip)
RR : Drawing

				DATE: 2004. 09. 21.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	M	IAIN BOA	RD	
	С	APACITO)R	
		C001	0CE107DF618	100UF STD 16V M FL TP5
		C001	0CE107DF618	1000F STD 16V M FL TP5
		C005	0CE107DF618	100UF STD 16V M FL TP5
		C007	0CE105DK618	1UF STD 50V M FL TP5
		C012	0CE107DF618	100UF STD 16V M FL TP5
		C019	0CE107DF618	100UF STD 16V M FL TP5
		C022 C024	0CE107DF618 0CE107DF618	100UF STD 16V M FL TP5 100UF STD 16V M FL TP5
		C024 C027	0CE107DF618	1000F STD 16V M FL TP5
		C032	0CE107DF618	100UF STD 16V M FL TP5
		C034	0CE107DF618	100UF STD 16V M FL TP5
		C1000	0CE108DJ618	1000UF STD 35V M FL TP5
		C1001	0CE108DJ618	1000UF STD 35V M FL TP5
		C1008 C1009	0CE107DK618 0CE107DK618	100UF STD 50V M FL TP5 100UF STD 50V M FL TP5
		C1003	0CE476DF618	47UF STD 16V M FL TP5
		C1013	0CE476DF618	47UF STD 16V M FL TP5
		C1018	0CE476DK618	47UF STD 50V M FL TP5
		C1105	0CE106DF618	10UF STD 16V M FL TP5
		C1106	0CE106DF618	10UF STD 16V M FL TP5
		C1108	0CE107DF618	100UF STD 16V M FL TP5
		C1110	0CE107DF618	100UF STD 16V M FL TP5
		C1111	0CE106DF618	10UF STD 16V M FL TP5
		C1117	0CE107DF618	100UF STD 16V M FL TP5
		C1124	0CE107DF618	100UF STD 16V M FL TP5
		C113	0CE107DF618	100UF STD 16V M FL TP5
		C1137	0CE476DF618	47UF STD 16V M FL TP5
		C1138	0CE106DF618	10UF STD 16V M FL TP5
		C1146	0CE476DF618	47UF STD 16V M FL TP5
		C1159	0CE106DK618	10UF STD 50V M FL TP5
		C116	0CE107DF618	100UF STD 16V M FL TP5
		C1223	0CE106DF618	10UF STD 16V M FL TP5
		C1225	0CE106DF618	10UF STD 16V M FL TP5
		C1226	0CE476DF618	47UF STD 16V M FL TP5
		C1227	0CE106DF618	10UF STD 16V M FL TP5
		C1228	0CE106DF618	10UF STD 16V M FL TP5
		C1245	0CE106DF618	10UF STD 16V M FL TP5
		C1246	0CE107DF618	100UF STD 16V M FL TP5
		C1248	0CE107DF618	100UF STD 16V M FL TP5
		C1251	0CE107DF618	100UF STD 16V M FL TP5
		C129	0CE105DK618	1UF STD 50V M FL TP5
		C1304	0CE107DF618	100UF STD 16V M FL TP5
		C1305	0CE476DK618	47UF STD 50V M FL TP5
		C131	0CE107DF618	100UF STD 16V M FL TP5
		C132	0CE107DF618	100UF STD 16V M FL TP5
		C1321	0CE107DF618	100UF STD 16V M FL TP5
		C1325	0CE107DF618	100UF STD 16V M FL TP5
		C1326	0CE107DF618	100UF STD 16V M FL TP5
		C1331	0CE107DF618	100UF STD 16V M FL TP5
		C1337	0CE476DF618	47UF STD 16V M FL TP5
		C137	0CE107DF618	100UF STD 16V M FL TP5
		C144	0CE106DF618	10UF STD 16V M FL TP5
		C148	0CE106DF618	10UF STD 16V M FL TP5
		C162	0CE476DF618	47UF STD 16V M FL TP5
		C163	0CE107DF618	100UF STD 16V M FL TP5
		3.00	55210751010	

			DATE: 2004. 09. 21.
*S	*AL LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	C167	0CE107DF618	100UF STD 16V M FL TP5
	C170	0CE107DK618	100UF STD 50V M FL TP5
	C236	0CE106DF618	10UF STD 16V M FL TP5
	C238	0CE106DF618	10UF STD 16V M FL TP5
	C239	0CE476DF618	47UF STD 16V M FL TP5
	C240	0CE106DF618	10UF STD 16V M FL TP5
	C249	0CE476DF618	47UF STD 16V M FL TP5
	C253	0CE107DF618	100UF STD 16V M FL TP5
	C257	0CE107DF618	100UF STD 16V M FL TP5
	C258	0CE107DF618	100UF STD 16V M FL TP5
	C261	0CE476DF618	47UF STD 16V M FL TP5
	C313	0CE476DF618	47UF STD 16V M FL TP5
	C317	0CE476DF618	47UF STD 16V M FL TP5
	C318	0CE476DF618	47UF STD 16V M FL TP5
	C321	0CE476DF618	47UF STD 16V M FL TP5
	C322	0CE476DF618	47UF STD 16V M FL TP5
	C323	0CE476DF618	47UF STD 16V M FL TP5
	C325	0CE476DF618	47UF STD 16V M FL TP5
	C409	0CE107DF618	100UF STD 16V M FL TP5
	C415	0CE107DF618	100UF STD 16V M FL TP5
	C419	0CE476DF618	47UF STD 16V M FL TP5
	C422	0CE476DF618	47UF STD 16V M FL TP5
	C453	0CE476DF618	47UF STD 16V M FL TP5
	C457	0CE107DF618	100UF STD 16V M FL TP5
	C552	0CE476DF618	47UF STD 16V M FL TP5
	C554	0CE476DF618	47UF STD 16V M FL TP5
	C556	0CE476DF618	47UF STD 16V M FL TP5
	C558	0CE476DF618	47UF STD 16V M FL TP5
	C560	0CE476DF618	47UF STD 16V M FL TP5
	C563	0CE107DF618	100UF STD 16V M FL TP5
	C565	0CE107DF618	100UF STD 16V M FL TP5
	C569	0CE107DF618	100UF STD 16V M FL TP5
	C631	0CE107DF618	100UF STD 16V M FL TP5
	C633	0CE107DF618	100UF STD 16V M FL TP5
	C634	0CE107DF618	100UF STD 16V M FL TP5
	C636	0CE107DF618	100UF STD 16V M FL TP5
	C734	0CE107DF618	100UF STD 16V M FL TP5
	C736	0CE107DF618	100UF STD 16V M FL TP5
	C801	0CE107DF618	100UF STD 16V M FL TP5
	C802	0CE105DK618 0CE227DF618	1UF STD 50V M FL TP5 220UF STD 16V M FL TP5
	C806	0CE107DF618	100UF STD 16V M FL TP5 1UF STD 50V M FL TP5
	C807 C808	0CE105DK618	100UF STD 16V M FL TP5
	C812	0CE107DF618	100UF STD 16V M FL TP5
	C925	0CE107DF618	1UF STD 50V M FL TP5
	C925	0CE476DF618	47UF STD 16V M FL TP5
	C936	0CE476DF618	47UF STD 16V M FL TP5
	C939	0CE476DF618	47UF STD 16V M FL TP5
	C939	0CE476DF618	47UF STD 16V M FL TP5
	C942	0CE476DF618	47UF STD 16V M FL TP5
	C946	0CE476DF618	47UF STD 16V M FL TP5
	C1129	0CH3472K516	4700PF 50V K B 2012 R/TP
	C1129	0CH3472K516	4700PF 50V K B 2012 R/TP
		33/10/1/2/(010	

				DATE: 2004. 09. 21.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1140	0CH3472K516	4700PF 50V K B 2012 R/TP
		C1145	0CH3472K516	4700PF 50V K B 2012 R/TP
		C1157	0CH3472K516	4700PF 50V K B 2012 R/TP
		C1158	0CH3472K516	4700PF 50V K B 2012 R/TP
		C417	0CH3472K516	4700PF 50V K B 2012 R/TP
		C424	0CH3472K516	4700PF 50V K B 2012 R/TP
		C814	0CH3472K516	4700PF 50V K B 2012 R/TP
		C009	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C010	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C1101	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C1103	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C1142 C1211	0CH6560K416	56PF 50V J NP0 2012 R/TP 220PF 50V J NP0 2012 R/TP
		C1211	0CH6221K416 0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1212	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1213	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1222	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1222	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C406	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C407	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C427	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C449	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C517	0CH6050K116	5PF 50V D NP0 2012 R/TP
		C544	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C545	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C639	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C803	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C804	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C949	0CH6200K416	20PF 50V J NP0 2012 R/TP
		C1002	181-007F	"MPE ECQ-V1H224JL3(TR), 50V 0."
		C1003	181-007F	"MPE ECQ-V1H224JL3(TR), 50V 0."
		C003	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C006	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C008	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C011	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C013	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C014	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C015 C016	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C016	0CH3104K566	0.1UF 50V 10% X/R 2012 R/TP
		C017	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C018	0CH3103K516	10000FF 50V 10% B(Y5P) 2012 R
		C020	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C023	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C025	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C026	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C028	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C033	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1006	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1007	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1014	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1021	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1022	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1109	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1118	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1120	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1136	0CH6010K116	1PF 50V 0.5 PF NP0 2012 R/TP
		C1139 C114	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP

				DITE and as a
*S	* A I	LOC NO	DARTNO	DATE: 2004. 09. 21. DESCRIPTION / SPECIFICATION
3	AL	LOC. NO.	PART NO.	DESCRIPTION/SPECIFICATION
		C1141	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1144	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1149	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1150	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1151	0CH6010K116	1PF 50V 0.5 PF NP0 2012 R/TP
		C1160	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1161	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C117	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1209	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1210	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1214	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1215	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1216	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1217	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1218	0CH5102K416 0CH5102K416	1000PF 50V 5% NP0 2012 R/TP 1000PF 50V 5% NP0 2012 R/TP
		C1219 C123	0CH3102K416 0CH3103K516	10000PF 50V 5% NP0 2012 R/TP
		C123	0CH3103K516	0.1UF 50V 10% B(13F) 2012 R
		C1247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1312	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1313	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1317	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1319	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1322	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1323	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1327 C1328	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C1328		10000PF 50V 10% X7R 2012 R/TP
		C133	0CH3103K516	0.1UF 50V 10% B(15P) 2012 R
		C1330	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1334	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1335	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C1336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1338	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1339	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1342	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C136	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C139	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C140	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C141	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C142	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C150	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C151	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C168	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C169	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C212	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C213	0CH6391K416	390PF 50V 5% NP0 2012 R/TP
		C214	0CH5390K416	39PF 50V 5% NP0 2012 R/TP
		C215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C216	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C217	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C221 C222	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C230	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C231	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C241 C242	0CH3103K516 0CH3104K566	10000PF 50V 10% B(Y5P) 2012 R 0.1UF 50V 10% X7R 2012 R/TP
		C242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C244	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C302	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C303	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C304 C305	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C307	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C308	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C309	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C310	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C311	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C312	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C326	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C408	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410 C411	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C411	0CH3104K566 0CH3103K516	10000PF 50V 10% X/R 2012 R/TF
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3	AL	LOC. NO.	PART NO.	DESCRIPTION/ SPECIFICATION
		C416	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C418	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C421	0CH6391K416	390PF 50V 5% NP0 2012 R/TP
		C436	0CH6391K416	390PF 50V 5% NP0 2012 R/TP
		C439	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C440	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C442	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C450	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C454	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C455	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C456	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C501 C502	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C502	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C504	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C505	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C506	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C507	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C508	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C509	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C510	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C511	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C512	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C513	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C514	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C515	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C516 C518	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C518	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C520	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C521	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C522	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C523	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C524	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C525	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C526	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C527	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C528	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C529	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C530	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C531		0.1UF 50V 10% X7R 2012 R/TP
		C532 C533	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C534	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C535	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C537	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C538	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C539	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C540	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C541	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C542	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C543	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C546	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C547	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C548	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C550	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C551	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C553 C555	0CH3104K566 0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP 0.1UF 50V 10% X7R 2012 R/TP
		C555	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C557	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C564	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
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*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	C567		0.1UF 50V 10% X7R 2012 R/TP			C730	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C568	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C731	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C601		0.1UF 50V 10% X7R 2012 R/TP			C732	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C733	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C735	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C604	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C800	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
	C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C606	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C809	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C810	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
	C608	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C811	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
	C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C813	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
	C610	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C901	0CH5300K416	30PF 50V 5% NP0 2012 R/TP
	C611	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C902	0CH5300K416	30PF 50V 5% NP0 2012 R/TP
	C612	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C903	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C613	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C904	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C614	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C905	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C906	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C616		0.1UF 50V 10% X7R 2012 R/TP			C907	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C617		0.1UF 50V 10% X7R 2012 R/TP			C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C618	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C909	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C619		0.1UF 50V 10% X7R 2012 R/TP			C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C620		0.1UF 50V 10% X7R 2012 R/TP			C911	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C622		0.1UF 50V 10% X7R 2012 R/TP			C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C623		0.1UF 50V 10% X7R 2012 R/TP			C913	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C623					C913	0CH3104K566	
			0.1UF 50V 10% X7R 2012 R/TP					0.1UF 50V 10% X7R 2012 R/TP
	C625		0.1UF 50V 10% X7R 2012 R/TP			C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C626		0.1UF 50V 10% X7R 2012 R/TP			C921	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C627		0.1UF 50V 10% X7R 2012 R/TP			C922	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C628		0.1UF 50V 10% X7R 2012 R/TP			C924	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C629		0.1UF 50V 10% X7R 2012 R/TP			C929	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C632		0.1UF 50V 10% X7R 2012 R/TP			C930	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C635	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C932	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
	C637	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C935	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
	C701	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C938	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C702	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C940	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C703	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C704	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C947	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C705	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C954	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C706	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C955	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
	C707	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C956	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
	C708	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C1010	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
	C709	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C1011	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
	C710		0.1UF 50V 10% X7R 2012 R/TP			C1015	0CH2562K516	5600PF 50V 10% B(Y5P) 2012 R/
	C711		0.1UF 50V 10% X7R 2012 R/TP			C1016	0CH2562K516	5600PF 50V 10% B(Y5P) 2012 R/
	C712		0.1UF 50V 10% X7R 2012 R/TP			C423	0CH2152K516	1500PF 50V 10% B(Y5P) 2012 R/
	C713		0.1UF 50V 10% X7R 2012 R/TP			C437	0CH2152K516	1500PF 50V 10% B(Y5P) 2012 R/
	C713		0.1UF 50V 10% X7R 2012 R/TP			C441	0CH2152K516	1500PF 50V 10% B(Y5P) 2012 R/
	C714 C715		0.1UF 50V 10% X7R 2012 R/TP			C1019	0CH2152K516 0CE475DK618	4.7UF STD 50V 20% FL TP 5
	C715		0.1UF 50V 10% X7R 2012 R/TP			C1019	0CE475DK618	4.7UF STD 50V 20% FL TP 5
	C716 C717					C1020		3.3UF STD 50V 20% FL TP 5
			0.1UF 50V 10% X7R 2012 R/TP				0CE335DK618	
	C718		0.1UF 50V 10% X7R 2012 R/TP			C1208	0CE477DF618	470UF STD 16V 20% FL TP 5
	C719		0.1UF 50V 10% X7R 2012 R/TP			C1220	0CE477DF618	470UF STD 16V 20% FL TP 5
	C720		0.1UF 50V 10% X7R 2012 R/TP			C1236	0CE475DK618	4.7UF STD 50V 20% FL TP 5
	C721		0.1UF 50V 10% X7R 2012 R/TP			C1300	0CE477DK618	470UF STD 50V 20% FL TP 5
	C722		0.1UF 50V 10% X7R 2012 R/TP			C1301	0CE477DF618	470UF STD 16V 20% FL TP 5
	C723		0.1UF 50V 10% X7R 2012 R/TP			C1302	0CE477DF618	470UF STD 16V 20% FL TP 5
	C724		0.1UF 50V 10% X7R 2012 R/TP			C1303	0CE477DF618	470UF STD 16V 20% FL TP 5
	C725	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C1306	0CE227DK618	220UF STD 50V M FL TP5
	C726	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C1307	0CE477DF618	470UF STD 16V 20% FL TP 5
	C727	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP			C1308	0CE227DK618	220UF STD 50V M FL TP5
		0012404866	0.1UF 50V 10% X7R 2012 R/TP			C1309	0CE477DF618	470UF STD 16V 20% FL TP 5
	C728	UCH3104N300	0.101 30V 10% X/K 2012 K/TF		- 1	01000	00247701010	147001 01D 10V 20701 E 11 0

*S *AL LOC. NO. PART NO. DESCRIPTION / SPECIFICATION C1340	
C1341 0CE477DF618 470UF STD 16V 20% FL TP 5	
C1341 0CE477DF618 470UF STD 16V 20% FL TP 5	
DIODES	
I I I I I I I I I I I I I I I I I I I	
D001 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D003 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D005 0DS226009AA KDS226 TP KEC SOT-23 80V 36	
D006 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D102 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D1101 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D1200 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D1201 DDS226009AA KDS226 TP KEC SOT-23 80V 30 D1202 DDS226009AA KDS226 TP KEC SOT-23 80V 30	
D1203 ODS226009AA KDS226 TP KEC SOT-23 80V 36	
D1204 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D1205 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D1206 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D1207 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D1208 0DS226009AA KDS226 TP KEC SOT-23 80V 30 D1209 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D1210 0DS226009AA KDS226 TP KEC SOT-23 80V 36	
D1211 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D1212 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D1214 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D1301 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D1302 0DS226009AA KDS226 TP KEC SOT-23 80V 30 D201 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D202 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D203 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D204 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D205 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D206 ODS226009AA KDS226 TP KEC SOT-23 80V 30	
D207 DDS226009AA KDS226 TP KEC SOT-23 80V 30 D301 DDS226009AA KDS226 TP KEC SOT-23 80V 30	
D302 0DS226009AA KDS226 TP KEC SOT-23 80V 36	
D303 0DS226009AA KDS226 TP KEC SOT-23 80V 3	
D304 0DS226009AA KDS226 TP KEC SOT-23 80V 30	00
D305 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D306 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D307 DDS226009AA KDS226 TP KEC SOT-23 80V 30 D308 DDS226009AA KDS226 TP KEC SOT-23 80V 30	
D310 0DS226009AA KDS226 TP KEC SOT-23 80V 36	
D311 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D501 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D602 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D801 DS226009AA KDS226 TP KEC SOT-23 80V 30 D802 DS226009AA KDS226 TP KEC SOT-23 80V 30	
D901 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D902 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D903 0DS226009AA KDS226 TP KEC SOT-23 80V 30	
D904 ODS226009AA KDS226 TP KEC SOT-23 80V 30	00
IC	
IC401 0IIT323000E VPC3230D C5 80P QFP TRAY V	
IC909 0IKE702700D "KIA7027AF 3, SOT-89 TP RESE	
IC005 0ISS610082A K6X1008T2D-TF70 REVISION 3	
IC502 0IMMREB010A "M12L64322A-6T ESMT 86P,TS0	OP T"

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S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC701	0IMMREB010A	"M12L64322A-6T ESMT 86P,TSOP T"
		IC702	0IMMREB010A	"M12L64322A-6T ESMT 86P,TSOP T"
		IC703		"M12L64322A-6T ESMT 86P,TSOP T"
		IC902		K6R4016V1D-TC10 SAMSUNG ELECT
		IC1001		MP7720 MONOLITHIC POWER SYSTE
		IC1002		MP7720 MONOLITHIC POWER SYSTE
		IC1002	0ISO210100B	"CXA2101AQ 80P,QFP BK VIDEO SI"
				ľ
		IC1102		MSP3410G QA B8 V3 MICRONAS 80
		IC1201	0ISO208900A	CXA2089Q 48QFP BK A/V SWITCH
		IC501		FLI2300BC GENESIS 208P PQFP T
		IC501		FLI2300BD GENESIS 208P PQFP T
		IC601		REMBRANT-102 OPLUS TECHNOLOGI
		IC901	0IMCRRS001A	R8820LV RDC SEMICONDUCTOR LTD
		IC905	0IOK825522A	MSM82C55A-2GS-2K 44P QFP ST C
		IC201	0IPRPAD018A	AD9888KS-140 ANALOG DEVICE 12
		IC906	01PH858400A	"PCF8584T 20P,SOP TP IIC BUS C"
		IC104	0IMCRKE010A	KIA7812AF KEC 2P DPACK R/TP 1
		IC1104	0IMCRKE010A	KIA7812AF KEC 2P DPACK R/TP 1
		IC1203	0IMCRKE010A	KIA7812AF KEC 2P DPACK R/TP 1
		IC1302	0IMCRKE010A	KIA7812AF KEC 2P DPACK R/TP 1
		IC1304	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/"
		IC003	0ISM555000A	SDA5550 MQFP100 BK MICOM TXT
	С	OIL & CO	ORE & INDUCTO	OR
		1.4000	01 000000004	2 SULL CERATECH DATE
		L1202	0LC0233002A	3.3UH CERATECH R/TP
		L1203	0LC0233002A	3.3UH CERATECH R/TP
		L1204	0LC0233002A	3.3UH CERATECH R/TP
		L1205	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-1
		L1206	0LC0233002A	3.3UH CERATECH R/TP
		L1207	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-1
		L1208	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-1
		L1209	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-1
		L1210	0LC0233002A	3.3UH CERATECH R/TP
		L1211	0LC0233002A	3.3UH CERATECH R/TP
		L1212	0LC0233002A	3.3UH CERATECH R/TP
	<u> </u>			
	_ <u> </u>	EI&IK/	ANSISTOR	
		IC001	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNE
		IC002	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNE
		IC302	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNE
		IC303	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNE
		Q1001	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
	1	Q101	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q102	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q103	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q1104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q1104 Q1108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
	1	Q1100	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q1109 Q1200	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q1200 Q1201		` '
	1		0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q1202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
	1	Q1203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q1204	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q1205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
	1	Q1206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q1207	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q1208	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q1200	0111007000781	,
		Q1301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
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				DATE: 2004. 09. 21.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q407	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q800 Q801	0TR387500AA 0TR387500AA	CHIP 2SC3875S(ALY) BK KEC CHIP 2SC3875S(ALY) BK KEC
		Q801 Q802	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q802 Q803	0TR150400BA	CHIP 2SG36733(AET) BK KEC
		Q804	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q805	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC
		Q806	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q901	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q902	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q903	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q904	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
		Q905	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC
	R	ESISTOR	ks	
		R003	0RH1000D622	
		R004	0RH1000D622	
		R006 R007	0RH1000D622 0RH1000D622	100 1/10W 5 D.R/TP
		R007	0RH4700D622	
		R010	0RH4700D622	
		R011	0RH1000D622	100 1/10W 5 D.R/TP
		R012	0RH1000D622	100 1/10W 5 D.R/TP
		R014	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R015	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R016	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R017	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R018	0RH0822D622	82 1/10W 5 D.R/TP
		R019	0RH4700D622	470 1/10W 5 D.R/TP
		R023 R024	0RH3301D622 0RH2200D622	3.3K 1/10W 5 D.R/TP 220 1/10W 5 D.R/TP
		R024 R025	0RH4701D622	
		R028	0RH4701D622	
		R1000	0RH8202D622	82K 1/10W 5 D.R/TP
		R1001	0RH8202D622	82K 1/10W 5 D.R/TP
		R1002	0RH1003D622	100K 1/10W 5 D.R/TP
		R1003	0RH1003D622	100K 1/10W 5 D.R/TP
		R1004	0RH1003D622	100K 1/10W 5 D.R/TP
		R1005	0RH1003D622	100K 1/10W 5 D.R/TP
		R1006	0RH1500D622	150 1/10W 5 D.R/TP
		R1008	0RH1500D622	150 1/10W 5 D.R/TP
		R1009	0RH4701D622	
		R1010	0RH4701D622 0RH4701D622	4.7K 1/10W 5 D.R/TP 4.7K 1/10W 5 D.R/TP
		R1011 R1013	0RH4701D622 0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1013	0RH0822D622	82 1/10W 5 D.R/TP
		R103	0RH1200D622	120 1/10W 5 D.R/TP
		R105	0RH1200D622	120 1/10W 5 D.R/TP
		R106	0RH0822D622	82 1/10W 5 D.R/TP
		R107	0RH2202D622	22K 1/10W 5 D.R/TP
		R108	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R109	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R110	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1105	0RH4701D622	
		R1107	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1108	0RH4701D622	
		R111	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1111 R1112	0RH6202D622 0RH4700D622	62K 1/10W 5 TA 470 1/10W 5 D.R/TP
		TIIIZ	UNTI41 UUD022	470 1/1000 3 D.R/1P

				DATE: 0004 00 04
*S	*AL	LOC. NO.	PART NO.	DATE: 2004. 09. 21. DESCRIPTION / SPECIFICATION
	AL	LOC. NO.	TARTINO.	DESCRIPTION OF ECH TOATION
		R1114	0RH1000D622	100 1/10W 5 D.R/TP
		R1116	0RH1000D622	100 1/10W 5 D.R/TP
		R112		2.0K 1/10W 5 D.R/TP
		R1123		4.7K 1/10W 5 D.R/TP
		R1127		1.0M 1/10W 5 D.R/TP
		R1129 R113		470K 1/10W 5 D.R/TP 2.0K 1/10W 5 D.R/TP
		R1130		2.0K 1/10W 5 D.R/TP
		R1131		2.0K 1/10W 5 D.R/TP
		R1132		470K 1/10W 5 D.R/TP
		R114	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1141	0RH4702D622	47K 1/10W 5 D.R/TP
		R1142	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R1145		47K 1/10W 5 D.R/TP
		R1147	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R115		2.0K 1/10W 5 D.R/TP
		R116		47K 1/10W 5 D.R/TP
		R117 R118	0RH2200D622 0RH2200D622	220 1/10W 5 D.R/TP 220 1/10W 5 D.R/TP
		R119	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R120	0RH2200D622	220 1/10W 5 D.R/TP
		R1200		82 1/10W 5 D.R/TP
		R1201	0RH0822D622	82 1/10W 5 D.R/TP
		R1202	0RH0822D622	82 1/10W 5 D.R/TP
		R1203	0RH0752D622	75 1/10W 5 D.R/TP
		R1204	0RH0822D622	82 1/10W 5 D.R/TP
		R1205	0RH6202D622	62K 1/10W 5 TA
		R1209		4.7K 1/10W 5 D.R/TP
		R121		820 1/10W 5 D.R/TP
		R1212 R1213	0RH0822D622 0RH6202D622	82 1/10W 5 D.R/TP 62K 1/10W 5 TA
		R1213	0RH0822D622	82 1/10W 5 D.R/TP
		R1215	0RH0822D622	82 1/10W 5 D.R/TP
		R1216	0RH0822D622	82 1/10W 5 D.R/TP
		R1217	0RH2203D622	220K 1/10W 5 D.R/TP
		R1219	0RH2203D622	220K 1/10W 5 D.R/TP
		R122	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1221	0RH0822D622	82 1/10W 5 D.R/TP
		R1222	0RH0822D622	82 1/10W 5 D.R/TP
		R1223		220K 1/10W 5 D.R/TP
		R1224		220K 1/10W 5 D.R/TP 470K 1/10W 5 D.R/TP
		R1225 R1226		470K 1/10W 5 D.R/TP 470K 1/10W 5 D.R/TP
		R1229		220K 1/10W 5 D.R/TP
		R123	0RH2200D622	220 1/10W 5 D.R/TP
		R1230		470K 1/10W 5 D.R/TP
		R1231	0RH2203D622	220K 1/10W 5 D.R/TP
		R1233	0RH4703D622	470K 1/10W 5 D.R/TP
		R1234		220K 1/10W 5 D.R/TP
		R1235	0RH2203D622	220K 1/10W 5 D.R/TP
		R1239	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R124	0RH8200D622	820 1/10W 5 D.R/TP
		R1242 R1245	0RH5600D622 0RH0822D622	560 1/10W 5 D.R/TP 82 1/10W 5 D.R/TP
		R1245	0RH5600D622	560 1/10W 5 D.R/TP
		R1247	0RH5600D622	560 1/10W 5 D.R/TP
		R1249	0RH1003D622	100K 1/10W 5 D.R/TP
		R125	0RH2200D622	220 1/10W 5 D.R/TP
		R1250	0RH0822D622	82 1/10W 5 D.R/TP
		R1251	0RH1000D622	100 1/10W 5 D.R/TP
		R1252	0RH1000D622	100 1/10W 5 D.R/TP
		R1253	0RH1000D622	100 1/10W 5 D.R/TP

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*0 *41	1.00.110	DARTHO	DATE: 2004. 09. 21.		*0	+ 4 1	100 110	DARTNO	DATE: 2004. 09. 21.
*S *AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION		*8	^AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	R1254	0PH1000D633	100 1/10W 5 D.R/TP				R239	0DH8201D622	8.2K 1/10W 5 D.R/TP
	R1254		100 1/10W 5 D.R/TP				R240		100 1/10W 5 D.R/TP
	R1256	0RH1000D622					R241		6.8K 1/10W 5 D.R/TP
	R1257		470 1/10W 5 D.R/TP				R243		220 1/10W 5 D.R/TP
	R1259		560 1/10W 5 D.R/TP				R244		220 1/10W 5 D.R/TP
	R126		820 1/10W 5 D.R/TP				R306		390 1/10W 5 D.R/TP
	R1261		560 1/10W 5 D.R/TP				R316		2.0K 1/10W 5 D.R/TP
	R1263		4.7K 1/10W 5 D.R/TP				R317		2.0K 1/10W 5 D.R/TP
	R1265		220 1/10W 5 D.R/TP				R318		2.0K 1/10W 5 D.R/TP
	R1266		220 1/10W 5 D.R/TP				R319		2.0K 1/10W 5 D.R/TP
	R1267		100 1/10W 5 D.R/TP				R321		100 1/10W 5 D.R/TP
	R1268	0RH1000D622					R328		10 1/10W 5 D.R/TP
	R1269		100 1/10W 5 D.R/TP				R332		100 1/10W 5 D.R/TP
	R127		470 1/10W 5 D.R/TP				R401		82 1/10W 5 D.R/TP
	R1273	0RH0822D622	82 1/10W 5 D.R/TP				R404	0RH0822D622	82 1/10W 5 D.R/TP
	R1275		4.7K 1/10W 5 D.R/TP				R409		4.7K 1/10W 5 D.R/TP
	R1277	0RH1500D622	150 1/10W 5 D.R/TP				R412	0RH2001D622	2.0K 1/10W 5 D.R/TP
	R128	0RH1202D622	12K 1/10W 5 D.R/TP				R413	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R129	0RH4700D622	470 1/10W 5 D.R/TP				R417	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R130	0RH4700D622	470 1/10W 5 D.R/TP				R421	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R1302	0RH1000D622	100 1/10W 5 D.R/TP				R422	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R1318	0RH1000D622	100 1/10W 5 D.R/TP				R423	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R132	0RH3304D622	3.3M 1/10W 5 D.R/TP				R424	0RH0822D622	82 1/10W 5 D.R/TP
	R1320	0RH6802D622	68K 1/10W 5 D.R/TP				R425	0RH0822D622	82 1/10W 5 D.R/TP
	R1322	0RH4701D622	4.7K 1/10W 5 D.R/TP				R426	0RH0822D622	82 1/10W 5 D.R/TP
	R1324	0RH1000D622	100 1/10W 5 D.R/TP				R441	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R133	0RH4702D622	47K 1/10W 5 D.R/TP				R442	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R134	0RH4702D622	47K 1/10W 5 D.R/TP				R443	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R135	0RH2200D622	220 1/10W 5 D.R/TP				R450	0RH2700D622	270 1/10W 5 D.R/TP
	R136	0RH0822D622	82 1/10W 5 D.R/TP				R453	0RH2700D622	270 1/10W 5 D.R/TP
	R137	0RH0822D622	82 1/10W 5 D.R/TP				R455	0RH4701D622	4.7K 1/10W 5 D.R/TP
	R138	0RH2200D622	220 1/10W 5 D.R/TP				R513	0RH1000D622	100 1/10W 5 D.R/TP
	R139	0RH2200D622	220 1/10W 5 D.R/TP				R514	0RH1000D622	100 1/10W 5 D.R/TP
	R140	0RH2200D622	220 1/10W 5 D.R/TP				R515	0RH1000D622	100 1/10W 5 D.R/TP
	R141	0RH2001D622	2.0K 1/10W 5 D.R/TP				R516	0RH0102D622	10 1/10W 5 D.R/TP
	R142	0RH1200D622	120 1/10W 5 D.R/TP				R517	0RH0102D622	10 1/10W 5 D.R/TP
	R143		120 1/10W 5 D.R/TP				R518		10 1/10W 5 D.R/TP
	R201		2.0K 1/10W 5 D.R/TP				R519		10 1/10W 5 D.R/TP
	R202		2.0K 1/10W 5 D.R/TP				R520		10 1/10W 5 D.R/TP
	R203		2.0K 1/10W 5 D.R/TP				R521		10 1/10W 5 D.R/TP
	R207		10 1/10W 5 D.R/TP				R524		82 1/10W 5 D.R/TP
	R212		3.3K 1/10W 5 D.R/TP				R525		82 1/10W 5 D.R/TP
	R214		75 1/10W 5 D.R/TP				R526		82 1/10W 5 D.R/TP
	R215		100 1/10W 5 D.R/TP				R527		82 1/10W 5 D.R/TP
	R216		75 1/10W 5 D.R/TP				R528		75 1/10W 5 D.R/TP
	R217		100 1/10W 5 D.R/TP				R529		75 1/10W 5 D.R/TP
	R218		4.7K 1/10W 5 D.R/TP				R535		470K 1/10W 5 D.R/TP
	R219 R221		4.7K 1/10W 5 D.R/TP				R536 R537		10 1/10W 5 D.R/TP
			75 1/10W 5 D.R/TP						10 1/10W 5 D.R/TP
1	R224 R225		470 1/10W 5 D.R/TP 470 1/10W 5 D.R/TP				R540 R542		75 1/10W 5 D.R/TP 180 1/10W 5 D.R/TP
							R612		47 1/10W 5 D.R/TP
1	R226 R227		220 1/10W 5 D.R/TP 220 1/10W 5 D.R/TP				R613		510 1/10W 5 D.R/TP
1	R227 R228		8.2K 1/10W 5 D.R/TP				R614		510 1/10W 5 D.R/TP
1	R229		100 1/10W 5 D.R/TP				R615		510 1/10W 5 D.R/TP
1	R229 R231		6.8K 1/10W 5 D.R/TP				R616		510 1/10W 5 D.R/TP
1	R231		270 1/10W 5 D.R/TP				R617		510 1/10W 5 D.R/TP
1	R232 R233		270 1/10W 5 D.R/TP				R618		510 1/10W 5 D.R/TP
1	R234		8.2K 1/10W 5 D.R/TP				R619		510 1/10W 5 D.R/TP
1	R235		100 1/10W 5 D.R/TP				R620		510 1/10W 5 D.R/TP
	R237		6.8K 1/10W 5 D.R/TP				R622		10 1/10W 5 D.R/TP
1	R238		270 1/10W 5 D.R/TP				R627		100 1/10W 5 D.R/TP
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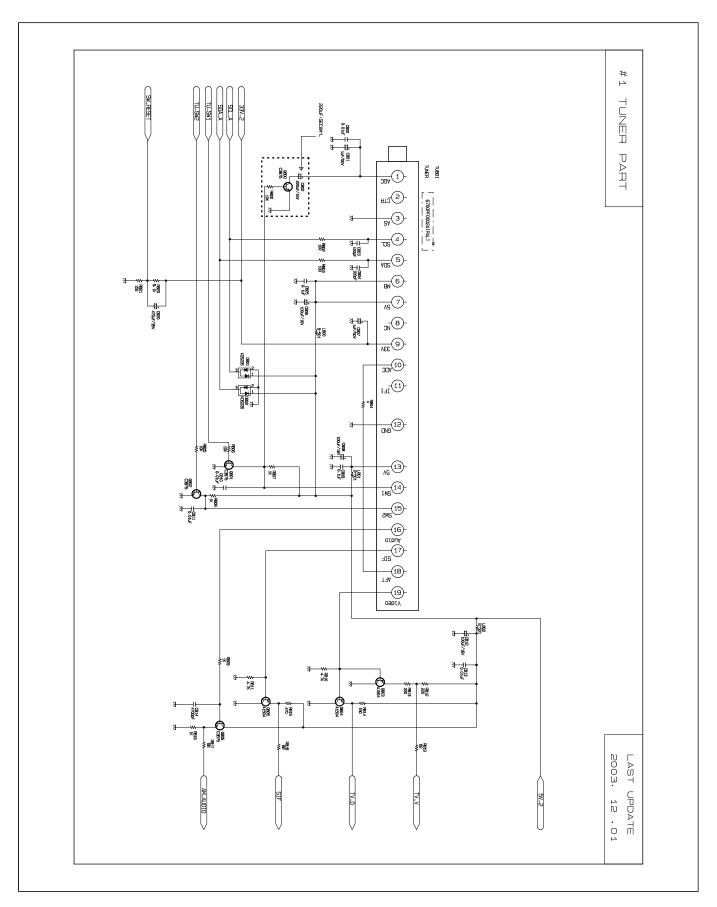
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-	AL	LOC. NO.	TAINT NO.	BESCHI HON/ SI ESII ICATION			L LOC. NO.	I ARTINO.	BESCRI HON/SI ECINOATION
		R802	0RH1000D622	100 1/10W 5 D.R/TP			R978	0RH1000D622	100 1/10W 5 D.R/TP
		R803					R981		100 1/10W 5 D.R/TP
		R810	0RH4701D622	4.7K 1/10W 5 D.R/TP			R983	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R811	0RH4701D622	4.7K 1/10W 5 D.R/TP			R984	0RH4700D622	470 1/10W 5 D.R/TP
		R812	0RH2200D622	220 1/10W 5 D.R/TP			R986	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R813	0RH2200D622	220 1/10W 5 D.R/TP			R987	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R814		150 1/10W 5 D.R/TP			R988		220 1/10W 5 D.R/TP
		R815					R989		47K 1/10W 5 D.R/TP
		R817		82 1/10W 5 D.R/TP			R991		82 1/10W 5 D.R/TP
		R818		82 1/10W 5 D.R/TP			R992		220 1/10W 5 D.R/TP
		R819 R902		82 1/10W 5 D.R/TP 3.3K 1/10W 5 D.R/TP			R993 AR201		220 1/10W 5 D.R/TP 22 OHM 1 / 16 W 1608 5% R/TP
		R902 R904		3.3K 1/10W 5 D.R/TP			AR201		22 OHM 1 / 16 W 1608 5% R/TP
		R905					AR203		22 OHM 1 / 16 W 1608 5% R/TP
		R910	0RH1000D622	100 1/10W 5 D.R/TP			AR204		22 OHM 1 / 16 W 1608 5% R/TP
		R911		100 1/10W 5 D.R/TP			AR205		22 OHM 1 / 16 W 1608 5% R/TP
		R912	0RH1000D622	100 1/10W 5 D.R/TP			AR206		22 OHM 1 / 16 W 1608 5% R/TP
		R913	0RH1000D622	100 1/10W 5 D.R/TP			AR207	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R914	0RH1000D622	100 1/10W 5 D.R/TP			AR208	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R915	0RH1000D622	100 1/10W 5 D.R/TP			AR209	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R916	0RH4701D622	4.7K 1/10W 5 D.R/TP			AR210	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R917		4.7K 1/10W 5 D.R/TP			AR211		22 OHM 1 / 16 W 1608 5% R/TP
		R918					AR212		22 OHM 1 / 16 W 1608 5% R/TP
		R919					AR301		22 OHM 1 / 16 W 1608 5% R/TP
		R920		3.3K 1/10W 5 D.R/TP			AR302		22 OHM 1 / 16 W 1608 5% R/TP
		R921		3.3K 1/10W 5 D.R/TP			AR303		22 OHM 1 / 16 W 1608 5% R/TP 22 OHM 1 / 16 W 1608 5% R/TP
		R922 R923		3.3K 1/10W 5 D.R/TP 3.3K 1/10W 5 D.R/TP			AR304 AR305		22 OHM 1 / 16 W 1608 5% R/TP
		R924		3.3K 1/10W 5 D.R/TP			AR306		22 OHM 1 / 16 W 1608 5% R/TP
		R925					AR307		22 OHM 1 / 16 W 1608 5% R/TP
		R926		82 1/10W 5 D.R/TP			AR308		22 OHM 1 / 16 W 1608 5% R/TP
		R927	0RH0822D622	82 1/10W 5 D.R/TP			AR309		22 OHM 1 / 16 W 1608 5% R/TP
		R928	0RH3301D622	3.3K 1/10W 5 D.R/TP			AR310	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R931	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP			AR311	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R932	0RH0822D622	82 1/10W 5 D.R/TP			AR312	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R933		82 1/10W 5 D.R/TP			AR401		22 OHM 1 / 16 W 1608 5% R/TP
		R934		3.3K 1/10W 5 D.R/TP			AR402		22 OHM 1 / 16 W 1608 5% R/TP
		R935		3.3K 1/10W 5 D.R/TP			AR403		22 OHM 1 / 16 W 1608 5% R/TP
		R936 R937	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP			AR404		22 OHM 1 / 16 W 1608 5% R/TP
		R938		3.3K 1/10W 5 D.R/TP 51K 1/10W 5 D.R/TP			AR501 AR502		22 OHM 1 / 16 W 1608 5% R/TP
		R939		3.3K 1/10W 5 D.R/TP			AR502	1	22 OHM 1 / 16 W 1608 5% R/TP
		R940		2.0K 1/10W 5 D.R/TP			AR504		22 OHM 1 / 16 W 1608 5% R/TP
		R942		2.0K 1/10W 5 D.R/TP			AR505		22 OHM 1 / 16 W 1608 5% R/TP
		R945		1.0M 1/10W 5 D.R/TP			AR506		22 OHM 1 / 16 W 1608 5% R/TP
		R950		5.1K 1/10W 5 D.R/TP			AR507	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R951	0RH0102D622	10 1/10W 5 D.R/TP			AR508	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R955	0RH4701D622	4.7K 1/10W 5 D.R/TP			AR509	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R957	0RH0822D622	82 1/10W 5 D.R/TP			AR510	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R958		100 1/10W 5 D.R/TP			AR511		22 OHM 1 / 16 W 1608 5% R/TP
		R959		82 1/10W 5 D.R/TP			AR512		22 OHM 1 / 16 W 1608 5% R/TP
		R961		4.7K 1/10W 5 D.R/TP			AR513		22 OHM 1 / 16 W 1608 5% R/TP
		R962		4.7K 1/10W 5 D.R/TP			AR514		22 OHM 1 / 16 W 1608 5% R/TP 22 OHM 1 / 16 W 1608 5% R/TP
		R963 R964		100 1/10W 5 D.R/TP 100 1/10W 5 D.R/TP			AR515 AR601		22 OHM 1 / 16 W 1608 5% R/TP
		R965		100 1/10W 5 D.R/TP			AR601		22 OHM 1 / 16 W 1608 5% R/TP
		R969	0RH1000D622	100 1/10W 5 D.R/TP			AR603		22 OHM 1 / 16 W 1608 5% R/TP
		R971		100 1/10W 5 D.R/TP			AR604		22 OHM 1 / 16 W 1608 5% R/TP
		R973		100 1/10W 5 D.R/TP			AR605		22 OHM 1 / 16 W 1608 5% R/TP
		R974	0RH1000D622	100 1/10W 5 D.R/TP			AR606		22 OHM 1 / 16 W 1608 5% R/TP
		R976		3.3K 1/10W 5 D.R/TP			AR901		22 OHM 1 / 16 W 1608 5% R/TP
		R977	0RH3301D622	3.3K 1/10W 5 D.R/TP			AR902	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
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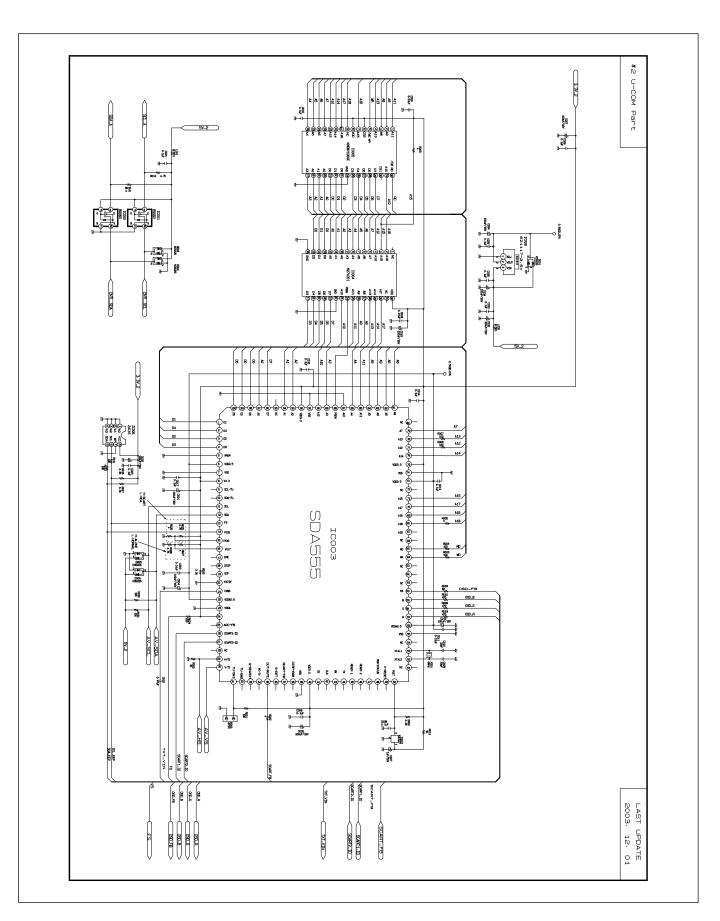
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	R013	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R020	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R021 R030	0RH1002D622 0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D 10K OHM 1 / 10 W 2012 5.00% D
	R031	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R1014	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R1015	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R1103	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
	R1109	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1115	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1118	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1122	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1125	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1140	0RH1001D622 0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D 1K OHM 1 / 10 W 2012 5.00% D
	R1144	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1146	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1210	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R1228	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1232	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1236	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1237	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1238	0RH1001D622 0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D 1K OHM 1 / 10 W 2012 5.00% D
	R1240	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1243	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1244	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
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	R1262	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1264 R1270	0RH1001D622 0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D 1K OHM 1 / 10 W 2012 5.00% D
	R1271	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1272	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1274	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
	R1276	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1278	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1279	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R1280 R1281	0RH1001D622 0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D 1K OHM 1 / 10 W 2012 5.00% D
	R1304	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
	R1305	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
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	R1314	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
	R1321	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R1325	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
	R208	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	R209	0RH0222D622 0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D 22 OHM 1 / 10 W 2012 5.00% D
	R210 R211	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
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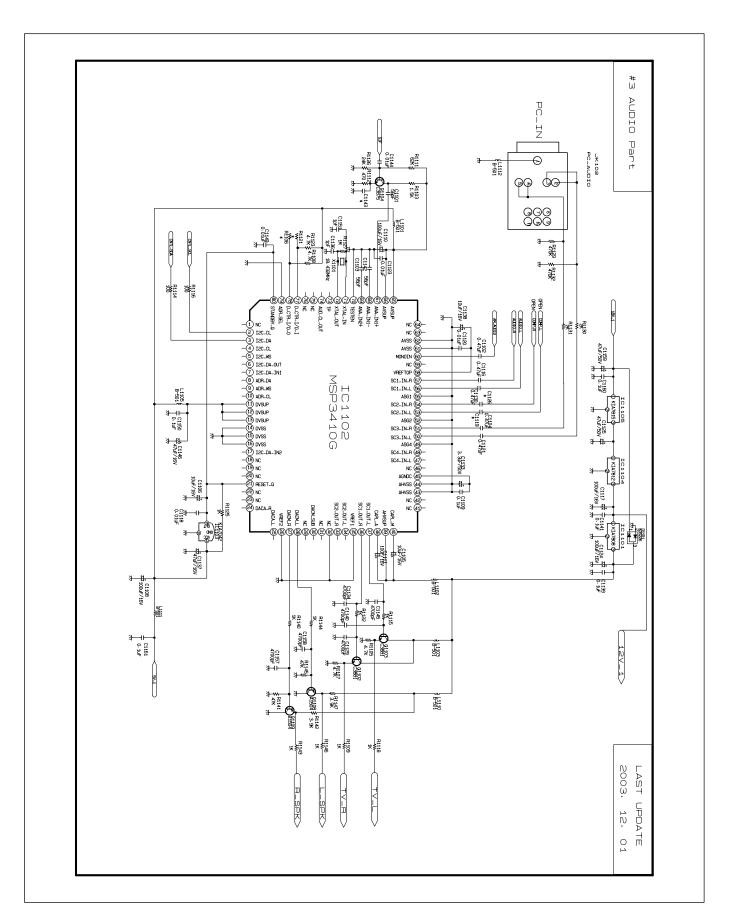
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		R307	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R308	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
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		R322	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R323	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R324	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R330 R331	0RH0000D622 0RH1002D622	0 OHM 1 / 10 W 2012 5.00% D 10K OHM 1 / 10 W 2012 5.00% D
		R333	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R334	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R336	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R403	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R406	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R407		22 OHM 1 / 10 W 2012 5.00% D
		R427	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R511	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R512	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R541	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R601	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R607	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R609	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R630	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R631	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R800	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R805	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R806	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R807	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R808 R809	0RH1001D622 0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D 1K OHM 1 / 10 W 2012 5.00% D
		R816	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R901	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R929	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R930	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R943	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R944	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R948	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R949		0 OHM 1 / 10 W 2012 5.00% D
		R954	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R956	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R966	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R968	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R972	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R975	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R979	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R985	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R990	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
	С	ONTROL	BOARD	
		R101	0RD1002F609	10K 1/6W 5 TA52
		R102	0RD1002F609	10K 1/6W 5 TA52
		R103	0RD1002F609	10K 1/6W 5 TA52
		R104	0RD1002F609	10K 1/6W 5 TA52
		R105	0RD1002F609	10K 1/6W 5 TA52
		R106	0RD1002F609	10K 1/6W 5 TA52
		R107 R108	0RD1002F609 0RD1002F609	10K 1/6W 5 TA52 10K 1/6W 5 TA52
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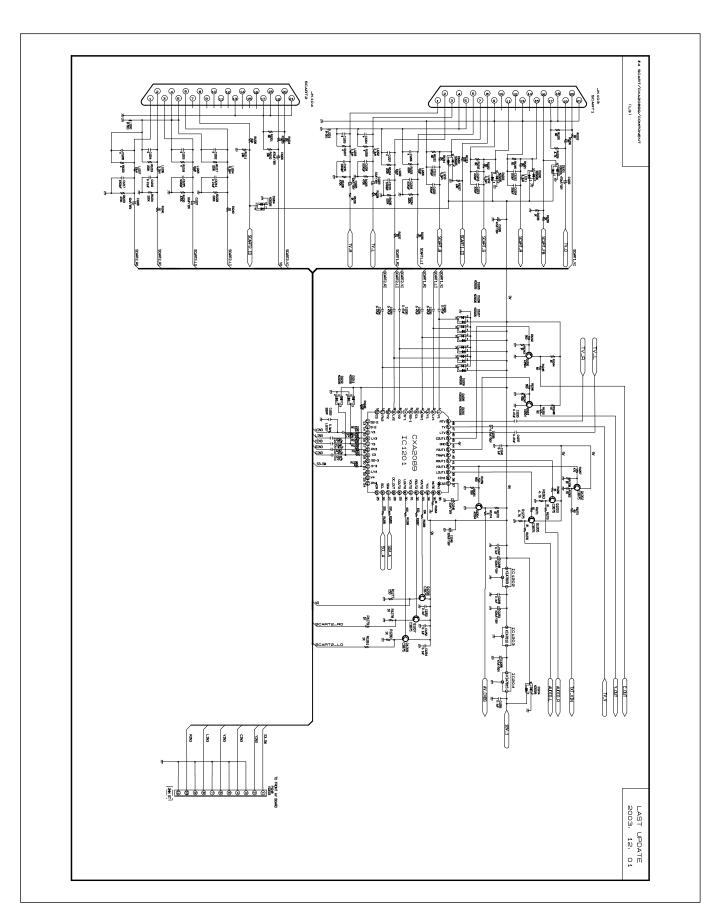
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		SW2	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW3	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW4	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW5	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW6	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW7	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
		SW8	140-313B	TACT 2LEAD 160G(TA) LG C&D NO				
	IF	BOARD						
		C102	0CE476DE618	47UF STD 16V M FL TP5				
		R101		470 1/6W 5 TA52				
		R102		10 OHM 1/6 W 5% TA52				
		JK301	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC00				
	- 1	ED BOAF	חי					
		LD BUAR						
		LD001	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN -				
	S	IDE A/V E	BOARD					
		C2102	0CH6331K416	330PF 50V J NP0 2012 R/TP				
		C2103		0.1UF 50V 10% X7R 2012 R/TP				
		C2104		330PF 50V J NP0 2012 R/TP				
		C2107		470F 50V J NP0 2012 R/TP				
		C2108	0CH6471K416	470F 50V J NP0 2012 R/TP				
		L2101	0LC0233002A	3.3UH CERATECH R/TP				
		L2102	0LC0233002A	3.3UH CERATECH R/TP				
		L2103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D				
		L2104	6210TCE001A	HB-1S2012-080JT CERATEC 2012M				
		L2105		HB-1S2012-080JT CERATEC 2012M				
		R2101		47 1/10W 5 D.R/TP				
		R2101		75 1/10W 5 D.R/TP				
		R2103		75 1/10W 5 D.R/TP				
		R2104		75 1/10W 5 D.R/TP				
		R2105		75 1/10W 5 D.R/TP				
		R2106	0RH0752D622	75 1/10W 5 D.R/TP				
		R2107	0RH4703D622	470K 1/10W 5 D.R/TP				
		R2108	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D				
		R2109		1K OHM 1 / 10 W 2012 5.00% D				
		R2110		470K 1/10W 5 D.R/TP				
		ZD2101		UDZ S 5.1B TP ROHM-K SOD323 2				
		ZD2101		UDZ S 5.1B TP ROHM-K SOD323 2				
		ZD2103	0DZ510009EE					
		JA2101	6613V00010F	PMJ 016-06 PARK-ELEC MUTI JAC				

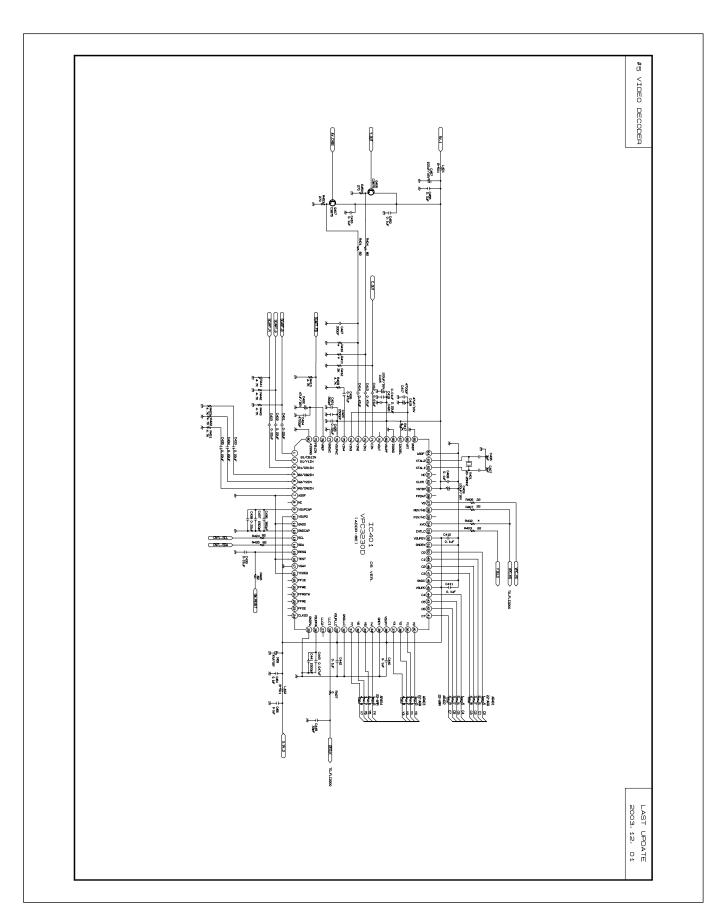
SCHEMATIC DIAGRAM

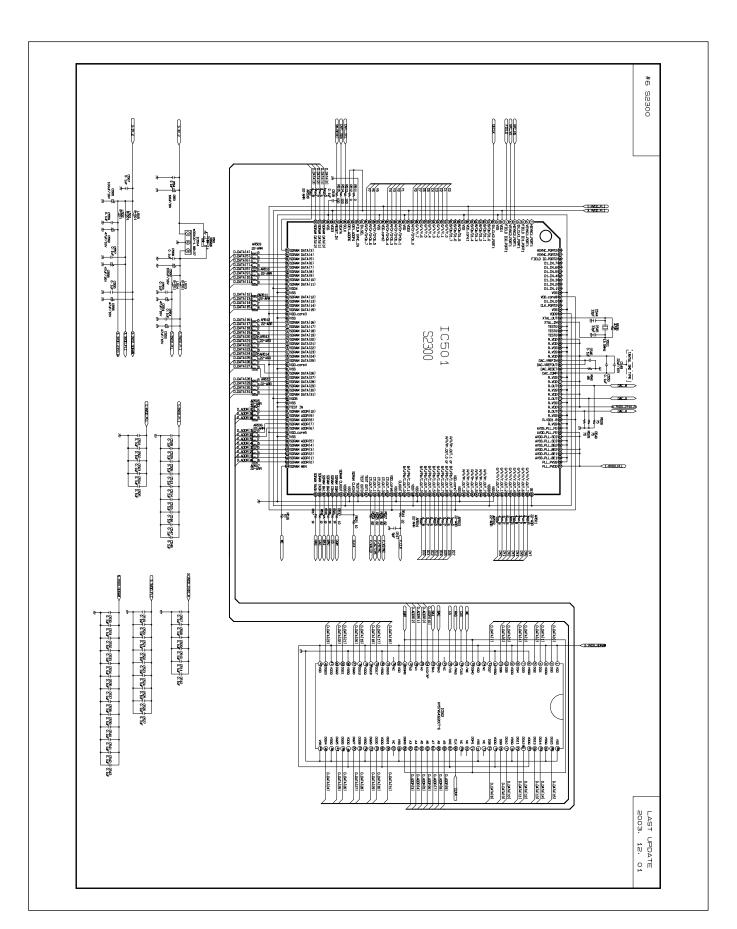


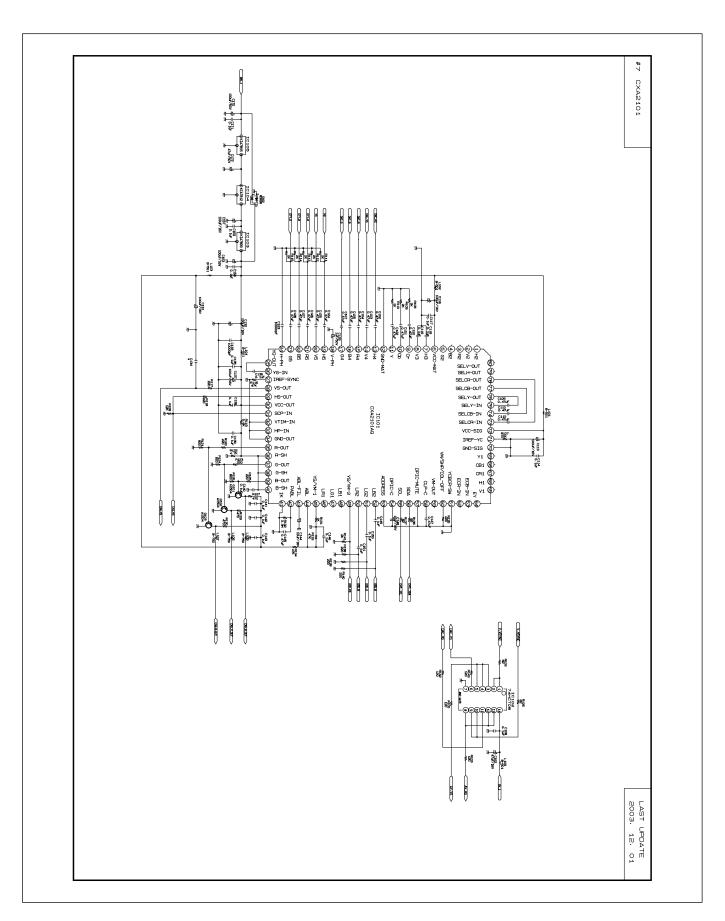


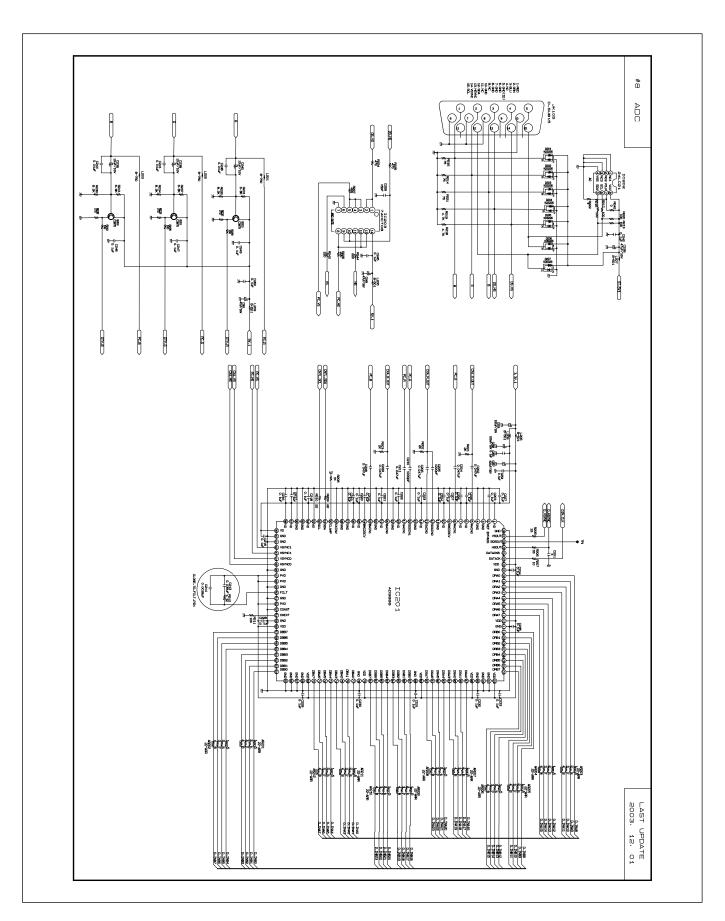


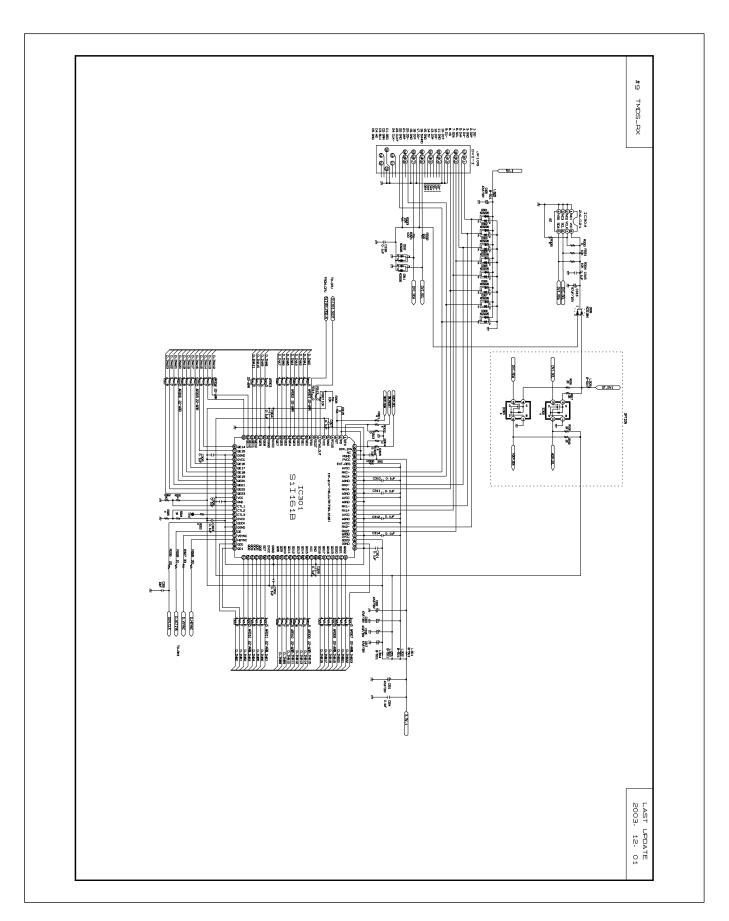


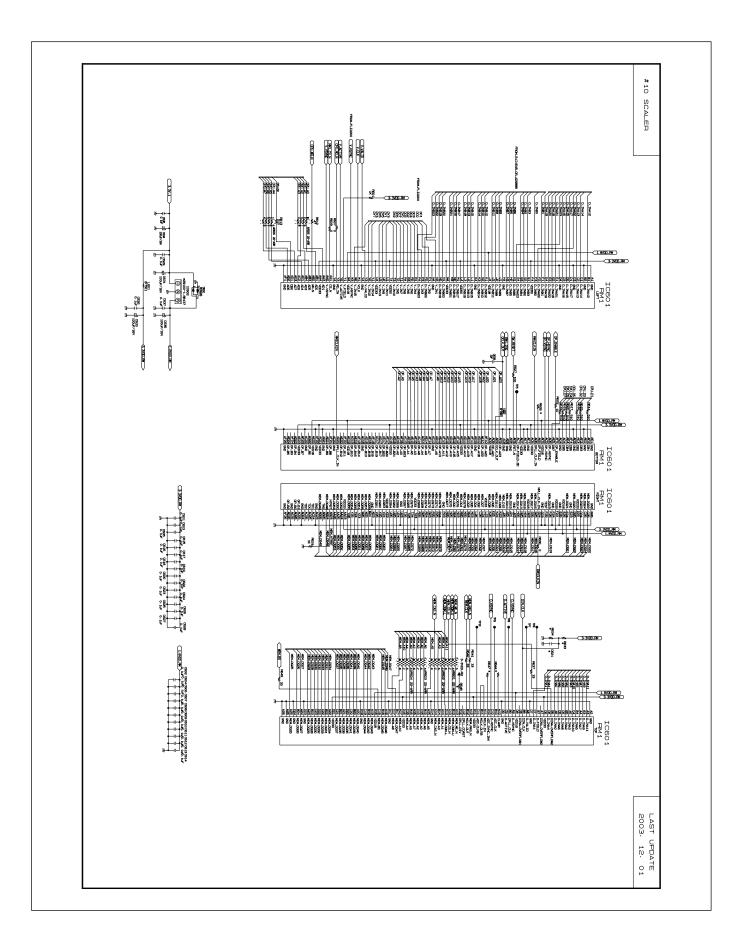


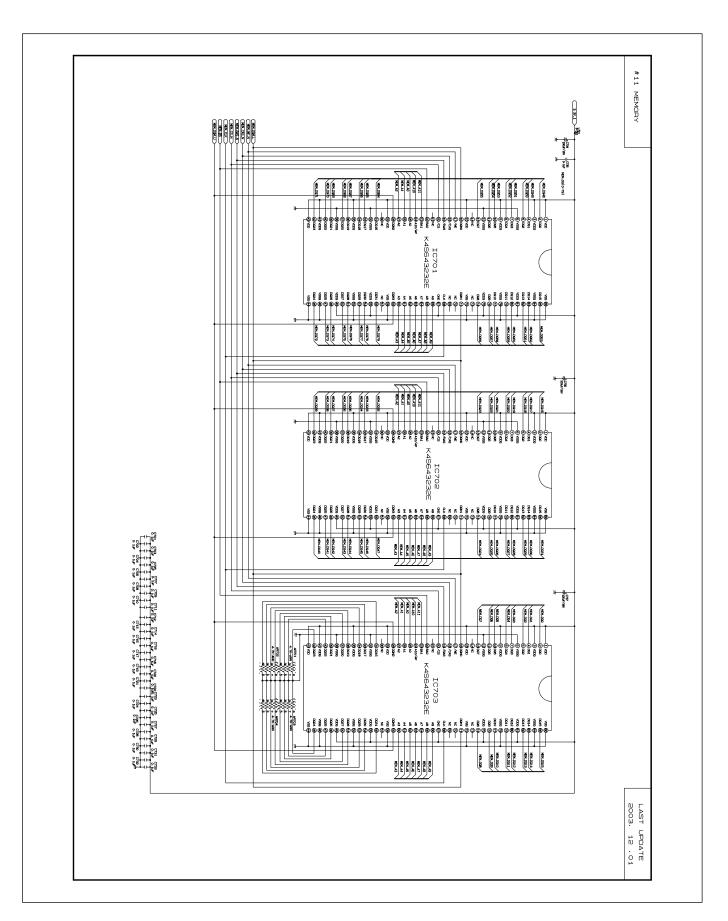


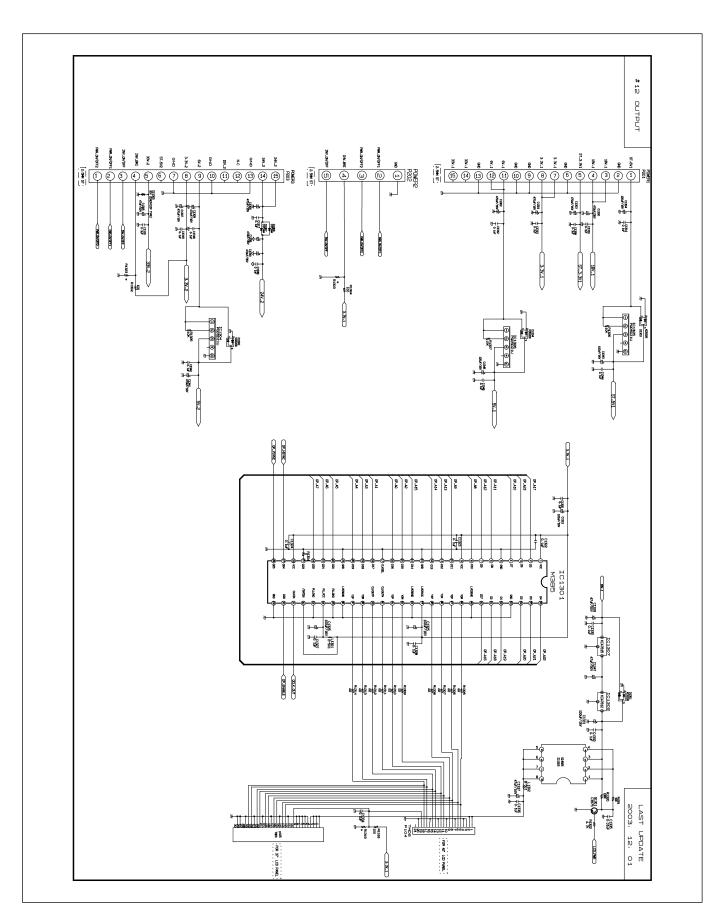


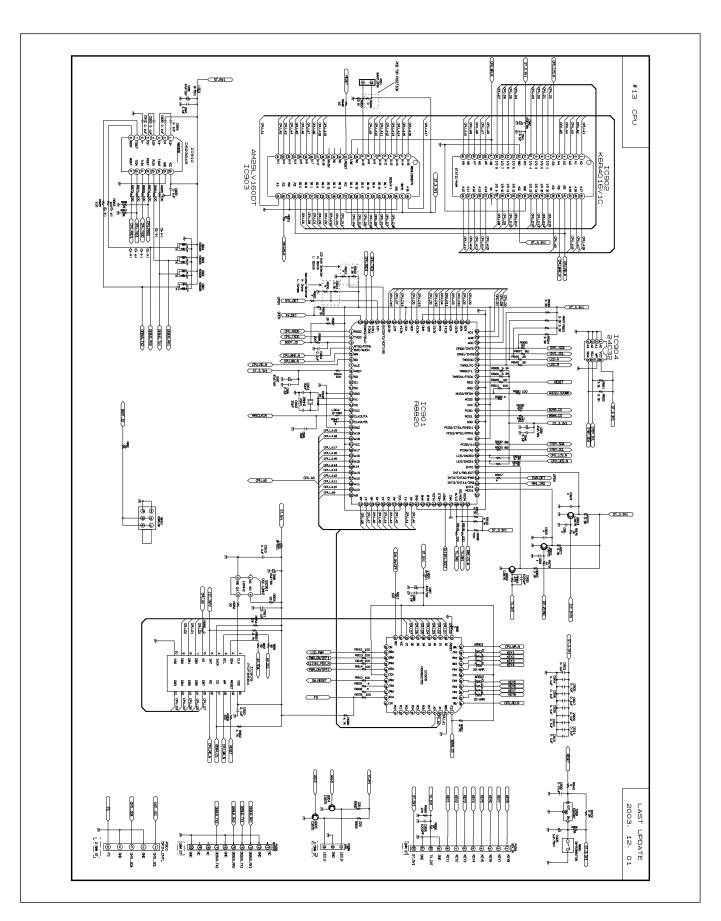


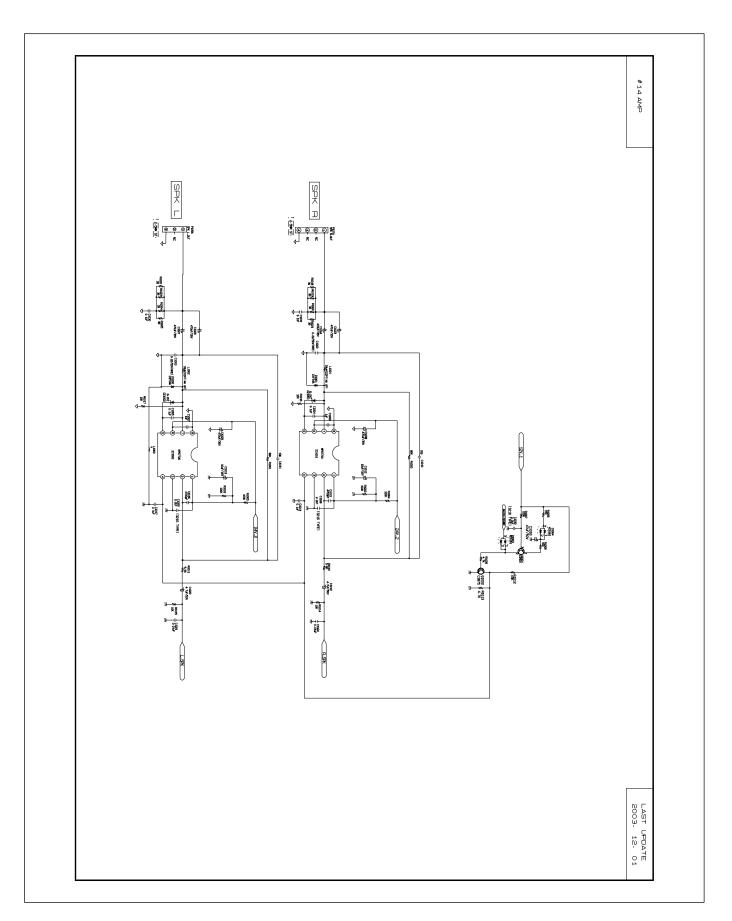


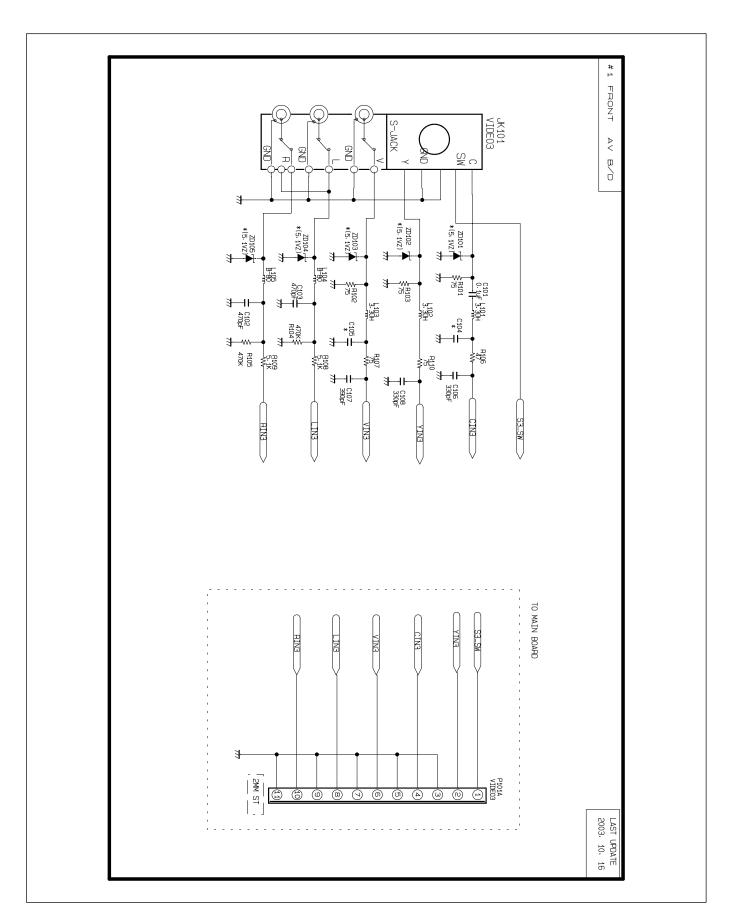


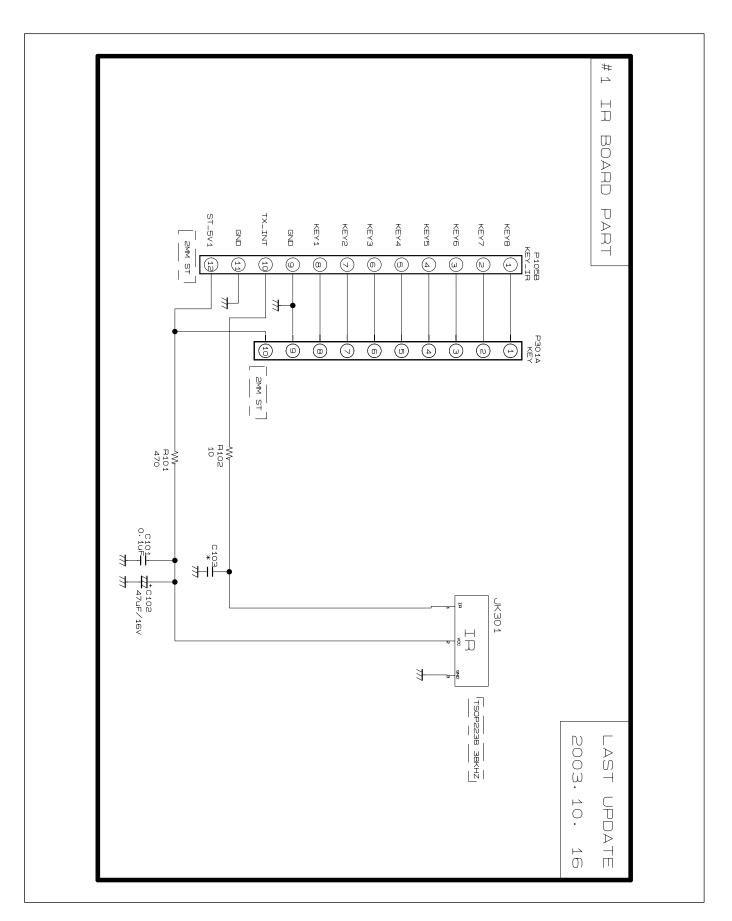


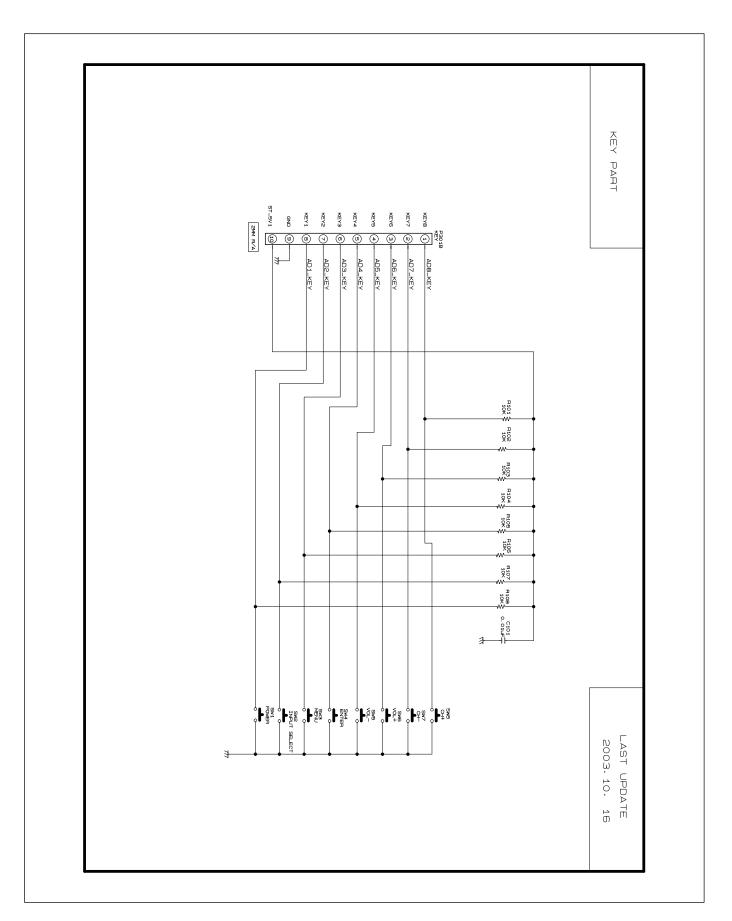


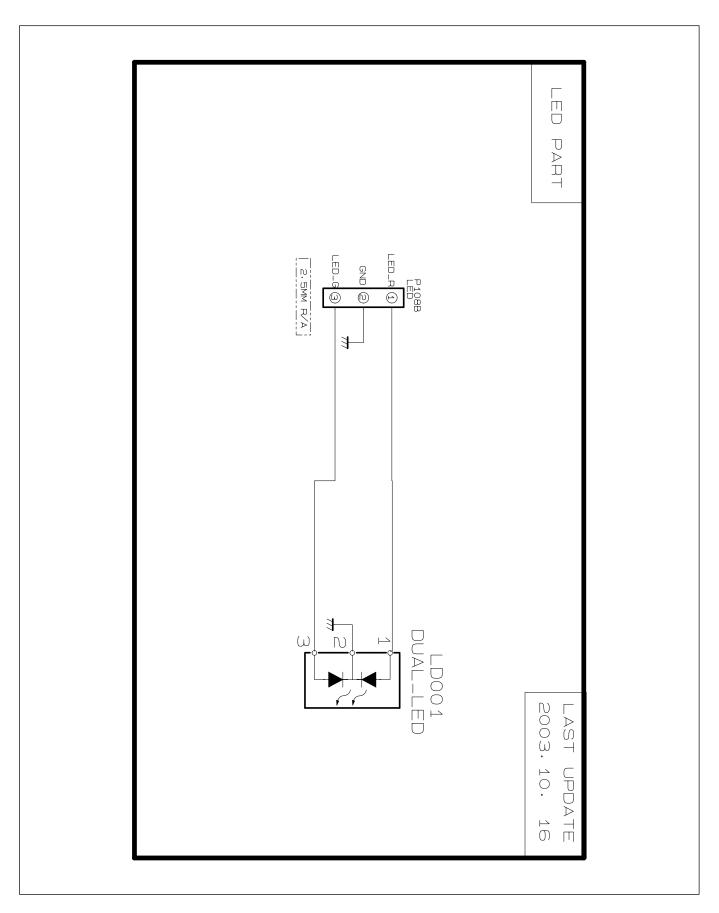














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